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## Systematic Database of *Musca* Names (Diptera)

A catalog of names associated with the genus-group name *Musca* Linnaeus, with information on their classification, distribution, and documentation

by

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## Introduction

*There is nothing so disastrous in Science as the arrogant dogmatism which despises the Past and admires nothing but the Present.*

Hoefler

Flies are important to man. They carry diseases, suck the blood of man and his animals, and destroy crops and food, but some are useful as pollinators, predators and parasites of man's enemies. In order to deal effectively with these pests and beneficials, man must have a name for each kind of fly. A kind of fly is called a species, and species are concepts. Names are critical, for without them communication about concepts would be impossible. To be useful, names must be unique: one and only one name for each concept. While names for species have existed since the beginning of recorded time, a formalized system for these names is a recent innovation. The gradual shift to this nomenclatural system has left a confusing array of names, there being the same name for different species and different names for the same species. As a contribution to eliminating this confusion, we have developed a systematic database of the names for flies.

Information does not become obsolete over time. The quality and relative quantity of data may be diminished, but useful information can still be found in old literature. Two examples will suffice to illustrate this point. Despite its antiquity, De Geer's *Mémoires ...* (1773) still contains much useful information about flies and their biology. Vockeroth (1969: 74-76, 139) recognized 4 species groups of the genus *Dasysyrphus* based on characters of the male genitalia and abdominal pattern. In a postscript, Vockeroth noted that his species groups agreed moderately well with the subgenera proposed by Dušek and Láška (1967). In addition to adult characters, Dušek and Láška used larval ones, which prompted Vockeroth to conclude "Further study, especially of many currently unknown larvae, may however support the recognition of these subgenera." At that time, Dušek and Láška knew larval examples of 3 of Vockeroth's 4 species groups. Unfortunately due to previous authors' disregard for the literature and the principle of priority, Dušek and Láška did not know that the larva of the 4th species group had also been described by De Geer (*Musca pinastris*). A quick inspection of De Geer's figures reveals that each species group of Vockeroth (or subgenera of Dušek and Láška) is easily recognized in the larval stage by the shape and number of fleshy protuberances.

A second example concerns screwworms. Some screwworms (*Cochliomyia*) are endemic to the New World and others (*Chrysomya*) to the Old World. All screwworms cause great injury to livestock and humans.

Hence, the introduction of Old World screwworms into the New World and vice versa is a phenomenon of great interest to agriculture. The introduction of Old World screwworms into the New World is generally thought to be a modern phenomenon (Gagné, 1981, Baumgartner & Greenberg, 1984), but it may not be so. De Geer described an Old World screwworm (*Musca erythrocephala*) from Surinam more than 200 years ago, but this fact was forgotten by subsequent workers (Thompson, 1973). These workers assumed that the specimens of *Chrysomya megacephala* found in De Geer's collection under the name *Musca erythrocephala*, while agreeing with De Geer's description, could not have been authentic types due to the then known distribution of the species. It is now obvious that De Geer did, in fact, describe an earlier introduction of Old World screwworms into the New World.

To access the older literature, one needs to know that it exists and one must have an index to it. The first step in preparing such an index is determining the meaning of the names under which the information was recorded (that is, developing a list of synonyms). Our database provides this first step for some 2,000 names of flies.

## A Systematic History of *Musca*

*It is an arduous task to give novelty to what is ancient, authority to what is new, interest to what is obsolete, light to what is obscure, charm to what is loathsome, and credit to what is dubious.*

Pliny: Natural History

The word "fly", like the French "*mouche*" and German "*Fliege*", has always been a generalized, typological term, and so it was originally with the words for "fly" in Classical Greek ("μύια") and Latin ("*musca*") which we have now come to accept in our scientific vocabulary as terms with a precise evolutionary meaning. The purpose of this chapter is to trace the metamorphosis and refinement of the concept "*musca*," from its vernacular origin down to its contemporary and very much more restricted meaning.

### Earliest times to Linnaeus (1758)<sup>1</sup>

Flies, and particularly domestic flies, have been man's constant companions during the entire course of human evolution, and beyond.

<sup>1</sup> For fuller details of the entomology of this period, see Bodenheimer (1928, 1929), Harpaz (1973), Morge (1973), Beier (1973) and Tuxen (1973); and for a detailed consideration of the identity of the insects discussed by classical Greek and Latin authors, see Beavis (1988).

The ancient civilizations of the Mediterranean, our intellectual and cultural forbears, had little precise knowledge of flies. Without the economic resources, social motivation, intense intellectual curiosity, and optical equipment that subsequently became available in 19th and 20th century Europe, they noted only those flies that impinged directly upon their lives, usually anthropomorphising them or endowing them with a numinous aura. For example, the Bible (2 Kings, chapter 1) reports on the worship of Baal-zebub at the Philistine town of Ekron (in modern Israel). Baal-zebub means “lord of the flies”, and by punning with Baal-zebul, “lord of the dung”, the Jews not only included a sneer at polytheism and the worship of idols but implicitly recognized the connection between flies and dung. In the heat of the Middle East, Baal-zebub was worshipped because he gave protection against flies, and even drove them away. The ancient Greeks gave Zeus and certain other gods the cognomina μυιωδης (myiodes: god of flies), απομυιος (apomyios: expeller of flies) and μυιαγρος (myiagros: hunter of flies) because these divinities were able to clear their temples of these insects.

During the period of Classical antiquity, from circa 1000 BC until circa 100 AD, the Greek “μυια” and Latin “*musca*” were used to cover synanthropic flies corresponding to the current families Muscidae and Calliphoridae (Beavis, 1988). These were recognized as distinct from smaller gnats and midges, and usually also from mosquitoes, horse flies, and cattle flies (bots, warbles) for which other terms were available: οιστρος, μυωψ, χωνοψ, εμπις, tabanus, asilus, culex, empis. The greatest zoologist of the period was Aristotle (BC 384-322), whose work was not surpassed for 2000 years. He classified insects firstly according to their wings and secondly according to their mouth-parts. He recognized a group of small insects with two wings, and also reported that the common house fly (*Musca domestica*) developed in heaped manure. His accounts of μυια (e.g. in *The History of Animals* IV, V) and those of other authors contain a curious mixture of sound factual observation and pure superstition and hearsay. For example, different stages of the life-history were known but they were not integrated into a life cycle. Aristotle mentions flies that extrude live maggots, yet he also refers to the spontaneous generation of maggots in dung and other putrefying matter, despite the fact that, at a far earlier period, Homer’s epic poem *Iliad* referred to maggots being produced by flies in the corpses of men slain in battle. The feeding behaviour of μυια was known: Aristotle described them as having a strong “tongue” (χεντρον) with which they could draw blood: he may have had the stable fly (*Stomoxys calcitrans*) in mind at this point, or even certain Tabanidae. Elsewhere he classifies μυια among those insects that feed primarily upon liquids and juices.



In Roman times, the most significant figure was Pliny the Elder (AD 23-79) whose *Historia Naturalis* (AD 77) was founded on Aristotle. This was an encyclopaedic condensation of all that was known at the time, with few original observations. Pliny took up Aristotle's distinction between flies with a fixed biting proboscis and flies with a soft sucking proboscis: “[*muscae*] *reliquorum quibusdam aculeus ... quibusdam muscis, omnibus autem his in ore et pro lingua*” [“some of the rest have a sting ... and some flies, but with all of these it is in the mouth and serves as a tongue”: interpreted as *Stomoxys calcitrans*]; and “*sunt hi aculei quibusdam hebetes, neque ad punctum sed ad suctum, ut muscarum generi, in quo lingua evidens fistula est*” [“with some these stings are blunt, and do not serve for pricking but for suction - for instance with a sort of fly, in which the tongue is evidently a tube”: *Musca domestica*].

The Medieval period, up to the close of the 15th century, was one of intellectual regression in scientific knowledge. The temporal and spiritual might of the Roman Catholic church was based upon an authority, tradition, and dogma in which empirical science had no place. Progress was not possible, nor was it desired. What might have been done could not in any case be disseminated, since writing was a monopoly of the monasteries. The dark cloud of ignorance and superstition was gradually dispersed by two events: the invention of printing and the fall of Constantinople, the repository of Classical learning for over 1100 years.

From this immensely long period of stagnation, a few works and authors can be highlighted to illustrate how the concept of “*musca*” was handled. Latin was the language of learning, and so “*musca*” was used for flies in a vernacular rather than a technical sense. Indeed, this continued right down to the time of Linnaeus, with most authors using “*musca*” as we now use “fly,” to include flies, scorpionflies, dragonflies, caddisflies, stoneflies, mayflies, etc.

The *Physiologus*, originating in the 1st century AD, was the most popular zoological book of medieval times but is too overlaid with religious symbolism to be factually reliable: “*musca*,” the fly, is a symbol of the devil and of suffering. Book 12 of *Origines sive Etymologiae* by Isidorus of Seville (560-636) discusses “*musca*” (and also “*culex*,” “*oestrus*,” “*bibio*”), and continues the fiction of the belief in spontaneous generation of maggots in meat. Isidorus mentions biting flies but not house flies. *De Universo* by Rhabanus Maurus (776-856) uses “*muscae*” to include flies, gad flies, and probably *Hippobosca*. *Liber de Natura Rerum* by Thomas Cantimpratanus (1201-1263/93) also mentions “*musca*.” Albertus Magnus (1193-1289), in the last book of his *De Animalibus*, discusses “*musca*” and asserts that the

fly has two wings and eight legs. It is thought that both he and Thomas Cantimpratanus must have had house flies in mind. Petrus Candidus Decembris (1399-1477) produced a *Codex* of animals that is one of the great exemplars of medieval art. He dealt with a "*Musca proterva*," which is also *Musca domestica*, and with a "*Musca cypri*," which is a fabulous creature addicted, like the salamander, to living in fire ("*in medio ignium impune volant*" — they fly with impunity in the middle of fire).

One bizarre aspect of medieval man's relationship with insects was in the field of pest control. Insects were actually tried before secular and ecclesiastical courts, prosecuted, and sentenced to banishment. In some cases, they were even physically arraigned before the courts and then executed.

Amidst this morasse of scholastic compilation, superstition, and hearsay, the liberating influence first of the Renaissance and then of the Reformation stimulated individuals to look at insects afresh, to make original observations without preconceived notions, and through a genuinely scientific method to bring about an advance in knowledge.

A characteristic work of the mid 16th century was that of the Englishman Edward Wotton (1492-1555), published in 1552. He divided the insects into six groups in a neo-Aristotelian fashion, using mouth-part conformation as his criterion. His group 4 is defined as "*insectae, quae promuscidem seu aculeum in ore gerunt: muscae, culices, cicadae, locustae, traxales*." His chapter ccxiii deals with flies, where he defines two groups: "*culex*" for the nematoceros and biting flies, and "*musca*" for the rest.

Entomological science was considerably advanced by the Italian Ulysse Aldrovandus (1522-1605), a pioneer of pure research. In book 3 of his *De animalibus insectis* (1602) he defined his major groups. A preliminary table included "*musca, tabanus, culex, ephemera*" as a group of two-winged insects. In his text he further defined this group as having no elytra and two wings ("*de anelytris, bipennibus*"). He discussed "*musca*," of which he illustrated 72 species (pp. 345-351), but also placed in the same group certain other "similar" four-winged insects: mayflies were grouped with "*musca*," whilst scorpionflies, lacewings, and some ruby-tailed wasps were included with "*culex*." His "*culex*" group differed from "*musca*" by the harder proboscis and more painful bite.

Similar advances were made in England by Thomas Mouffet (1553-1604), whose major work was published posthumously in Latin in 1634 (also in English in Topsel 1658). Three chapters (10-12) deal with "*musca*." Chapter 10 (Topsel version, 1658: 931) contains a delightful anthropomorphism about the fly: "The light, like Truth, he doth exceedingly rejoyce in, and doth

behave himself honestly therein and civilly". Chapter 11 "*de muscorum differentiis*" is concerned with the different kinds of flies known to him. He appears not to discuss the house fly, but his "*musca*" is used in a very broad, almost vernacular, sense and is not confined to two-winged insects. His illustrations of "*musca*" show various Diptera (flesh fly, dog fly, bee fly, etc), caddisflies, scorpionflies, mayflies, parasitic Hymenoptera, alderflies, dragonflies and damselflies, sawflies, and even a cockroach. His text mentions "*Musca lupus*," "*carnivora*," "*canum*," "*equina*," "*bucularia*," though these are used descriptively, and also the related groups "*Asilus*," "*Tabanus*," "*Oestrus*."

The invention of the microscope in Holland at the end of the 16th century opened up new areas for investigation, and the foundation of several academies and scientific societies encouraged dissemination of the results. The Italian F. Redi (1626-1698) was the first entomologist to exploit the microscope. He demonstrated that insects do not arise from decaying matter, but from eggs deposited on suitable substrates by the adult females (Redi, 1668): the era of spontaneous generation was finally over! He illustrated the adult, larva and pupa of a "*Musca cerasorum*" attacking cherries [Tephritidae]. The section of his work dealing with "*moscas*" (Redi, 1778 edition) discussed oestrids and mosquitoes, and also the true flies that produce the maggots in meat and corpses.

Two Dutchmen, J. J. Swammerdam (1637-1680) and A. van Leeuwenhoek (1632-1723) further exploited the power of the microscope. Swammerdam (1685) classified the insects into four classes, according to their metamorphosis, and this reflects real advances made in the acquisition of biological knowledge. His "*ordo IV, nympa-vermiformis*" comprises "*musca latrinarum, asili, tabani, equina, stercoraria, acarus*." The text of his work discusses many different kinds of "*musca*," including mayflies and scorpionflies, so it is clear that he too was using "*musca*" in a vernacular sense here. He knew the flies that come from larvae in rotting meat and that live as parasites in other insects, but did not mention the house fly. He described (1685: 189, plate 11) the egg, larva, and puparium of "*Musca vulgaris latrinicolae*" (in index as: "*Musca latrinicola vulgaris*"), which is clearly a species of *Fannia* and probably *scalaris* (Fabricius) ("*colorisque est nigricantibus, sed quadam canitie temperati*"). The great microscopist Leeuwenhoek (1719: 104-119) discussed "*muscas domesticas*" and other "*muscae*."

A further advance came with the work of the Englishman John Ray (1628-1705), who followed Swammerdam in erecting a system based on morphological and biological facts. Ray is credited with being the first

zoologist to recognize the species and genus as systematic units, defining the species as a collective idea for the offspring from the same or identical progenitors and the genus as a group of species that resemble each other. His great work was published posthumously (Ray, 1710). Flies, “*muscae*,” are divided into those with two wings and those with four. The section of “*muscae bipennes*” (p. 266) describes 39 species. These include “*musca carnaria vulgaris*,” the common flesh fly (Sarcophagidae), and “*musca bombylium referens, humeris rufis, cauda albicante*,” a bee fly (Bombyliidae) that occurs in early spring. On p. 274 the section “*muscae quadripennes*” begins, e.g. “*musca quadripennis, alis longis angustis Papilionum in modum variegatis*.” A number of parasitic “*muscae*” are described in the “*Vespa ichneumon*” group (p. 256-262).

Alongside the work of these system builders — the architects — other work, less ambitious in its aims but equally worthy, was being carried out by the builders of the individual bricks in the edifice of knowledge — the artisans. These further illustrate just how broad the concept of “*musca*” still was in the 17th and early 18th centuries. C. Schwenckfeld (1603) described the insects of Silesia, illustrating a series of species of “*musca*.” Whilst his “*musca*” was defined as having two wings (“*insectum volatile, bipenne*”), many of the insects he included were four-winged: “*Musca infectoria, eine Schmeissfliege*” (Sarcophagidae), “*Musca viridis, eine grüne Fliege*” (Calliphoridae), “*Musca versicolor, eine schöne bundte Fliege*” (?Syrphidae), “*Musca ligniperda, eine Holzfliege/Borfliege*” (Hymenoptera), “*Musca grandior oculata*” and its many forms (Odonata), “*Musca caudata, eine Schwanzfliege*” (Plecoptera). The Dutchman J. Goedart (1620-1668) described 144 numbered experiments in insect breeding (1662a, b, c; English translation by Lister, 1682). He used no names: the description of the immature stages and adults were accompanied by illustrations, and he referred simply to “the fly opposite” or to the fly in the plate. One experiment (1682: 123-124, no. 130) concerned the little house fly, *Fannia canicularis*, and is worth quoting in full:

I had a mind to try, what wou'd become of the putrid and corrupted Uriue of a man; I made a Funnell of paper, and so folded it, that no Fly or other Animall cou'd get into it: having infused into it oft times humane Uriue; I found some some Worms to be bred in the folds, where the feces stayed. I reserved one of them, for the experiment sake, which composed it self for change, the first of March: and the 14th. of the same moneth, it had the forme of a Fly, depicted in the Table: its head was Red, the body Black, and the hinder-parts Yellowish.

Another Dutchman, S. Blankaart (1688) published a delightful little book with coloured plates and a text in Dutch, dealing with the immature stages of various insects. No. XXIII, page 81, plate 10 (of larva, puparium, adult)



concerns “*van de Worm met het Vliegjen uit de Hoender mest gewassen*” and is obviously *Fannia scalaris*. No. XXII, page 78, plate 10 (of larva, puparium, adult) deals with a rat-tailed maggot, “*van de Swijn made mit sijn Tonnetjen en Vlieg*,” and this has the only Latin epithet of the book, “*Musca apiformis*.” Finally, a German work by J. L. Frisch (1660-1743), published between 1720 and 1738, described biologies of various insects. The house fly appears not to have been described, but there is, for example, a Sarcophagid with illustrations of the larva, spiracles and adult, “*von den Schmeiss-Fliegen mit grau- und schwartzwürflichen Hinterleib*” (1728: 21, plate 14). Another, described as “*Die Fliege ist glänzend-schwartz, so herauskriecht*,” could be *Hydrotaea* (1732: 8, plate 6, “*von einer kleinen Art der Aas-Fliegen*”).

The last great figure before Linnaeus was the Frenchman R. A. F. de Réaumur (1683-1757), a prolific and enormously influential scientist. He stressed, above all else, the importance of personal observation and personal experience. His *Mémoires* consist of a series of morphological and biological observations, written in French and with a vernacular nomenclature (“*Mouche*,” “*Mouches*,” “*genre des Tipules*”). In his treatment of “*mouches*” (1738) he divided them into a number of groups based on the mouth-parts. The two-winged flies that he recognized (e.g. blue bottles, house flies, mosquitoes) were assigned to the first two classes: (1) “*mouches qui ont une trompe, & qui n’ont point de dents ou de ferres*,” and (2) “*mouches qui ont une bouche sans dents sensibles*.” The other groups are filled with four-winged flies such as scorpionflies, caddisflies, etc. The full range of his “*mouches*” can be seen on plates 8-11. Additional characters that he considered were the antennae, the mode of crossing the wings, and the body-length. He also discussed the biology of flies. Réaumur noted that there were viviparous and oviparous higher flies, observed the method of adult eclosion using the ptilinum, and reared blue bottles, green bottles, flesh flies, and house flies from meat. An interpretation of Réaumur’s species, which included *Musca domestica* and a number of new species, was given by Vallot (1802).

Shortly before the appearance of the 10th edition of Linnaeus’ *Systema Naturae*, another Frenchman, L. Joblot (1754), published a series of microscopical studies of insects, written in French, which illustrate the continuing, broad, multi-ordinal concept of “fly.” Four species of “*mouches*” were described: “*la mouche commune*” (p. 9, pl. 5, Calliphoridae); “*...mouche qui se voit ordinairement sur la surface du vin et sur celle du vinaigre*” (p. 12, pl. 6, Drosophilidae); “*...mouche aquatique et terrestre qui nage sur le dos, qui saute et marche étant hors de l’eau*” (p. 22, pl. 11, Notonectidae); “*... une autre espèce de mouche aquatique et terrestre*” (p. 26, pl. 7, Corixidae).

From Linnaeus to Meigen (1758-1838)<sup>2</sup>

In following the history of *Musca* during this period, one can trace a direct line of descent from Linnaeus to Fabricius to Meigen. Most authors followed the lead given by these three authors, sometimes adding small details to the system.

With hindsight, it is easy to see that the 10th edition of the *Systema Naturae* was a quantum-leap forward in systematic zoology, an example of "paradigm forming science" (Kuhn, 1962). Yet, at the time, its impact was neither instantaneous nor universal, and there is no caesura in the scientific literature at 1758. Carl von Linnaeus (1707-1778) only arrived gradually at his binominal nomenclature: originally using one word for the genus and up to 12 for the species, he refined this until he was consistently binominal in 1749 for plants (*Pan Svecicus*) and 1754 for animals (*Museum S:ae R:ae M:tis Adolphi Friderici*). In 1758, he gave a well-defined view of orders, genera and species, and a means for distinguishing the species. These conspicuous merits, together with his clarity of thought and limpidity of style, helped to promulgate both his system and his method.

Yet the 1st edition of *Systema Naturae* (1735) was not a great advance on contemporary knowledge and gave little indication of what would eventually follow. There was very scant attention to species. Linnaeus recognized four insect orders, defined by wing form: Coleoptera, Angioptera, Hemiptera, Aptera. Within each of these, he listed "genera," with a diagnosis and a note of the characteristic taxa. Nine "genera" are listed in the Angioptera, for example:

|                 |  |                          |
|-----------------|--|--------------------------|
| <i>Ephemera</i> | <i>Cauda setosa, alae 4 erectae.</i>             | <i>Musca ephemera.</i>   |
| <i>Panorpa</i>  | <i>Cauda chelifomis, alae 4, rostrum comeum.</i> | <i>Musca scorpiurus.</i> |

The last genus is *Musca* (1735: 77):

|              |   |                                 |
|--------------|---|---------------------------------|
| <i>Musca</i> | <i>Stylus sub alis capitatus. Alae 2.</i> | <i>Musca diversarum species</i> |
|              |   | <i>Oestrum vet.</i>             |
|              |   | ----- <i>lapponum</i>           |
|              |   | <i>Tabanus</i>                  |
|              |   | <i>Culex teredo navium</i>      |
|              |   | <i>Tipula. Fornicaleo</i>       |

It is curious to see the ant lion (Neuroptera: *Myrmeleon*) and the ship worm (Mollusca: *Teredo*) in this list!

<sup>2</sup> For more general discussion of this period, see Tuxen (1973) and Lindroth (1973).

There was little change in editions 2 and 3, but in edition 4 (1744: 95) Linnaeus used the term Diptera for his ordo 6 and thus arrived at a conception of two-winged flies that is not much different from our own. He listed seven genera, but clearly had not yet clarified his ideas on nomenclature, using “*Musca*” at the species-level in a vernacular sense:

|            |                     |   |
|------------|---------------------|---|
| Genus 172. | <i>Asilus</i>       |   |
|            | <i>Musca rapax</i>  | <i>l'A sille</i>  |
| Genus 173. | <i>Hippobosca</i>   |   |
|            | <i>Musca equina</i> | <i>la mouche araignée</i>                                 |
| Genus 175. | <i>Musca</i>        |   |
|            | <i>Musca</i>        | <i>Os proboscide absque dentibus.</i><br><i>la mouche</i> |

And even in other orders:

|            |                         |                           |
|------------|-------------------------|---------------------------|
| Genus 164. | <i>Ephmera</i>          |                           |
|            | <i>Musca ephmera</i>    | <i>l'ephemère</i>         |
| Genus 166. | <i>Panorpa</i>          |                           |
|            | <i>Musca scorpionus</i> | <i>la mouche-scorpion</i> |

The first edition of *Fauna Svecica* (1746) marked a very striking advance on this. Of course, it was primarily a work on the Swedish fauna rather than a work on classification, and so the species are treated in great detail. There are 7 genera of Diptera, as in the preceding edition of the *Systema*, and the genus *Musca* is dealt with on page 313. Linnaeus describes 64 species in *Musca*, assigned to six groups: *Alis variegatis*; *Hirsutae dictae*; *Variegatae*; *Aphidivorae*; *Auratae*; and *Vulgares*. Each species is given a description, with references to earlier works, biology, distribution, etc. The nomenclature is not binominal in the formal sense, the Latin being purely descriptive, e.g.: *Musca fusca*, *oblonga*, *nigra* or *Musca nigra*; *abdomine nitido tessellato*, *thorace lineis pallidioribus longitudinalibus*; *minor*.

In Edition 6 of the *Systema Naturae* (1748) the treatment was more expanded when compared with the previous editions. Linnaeus listed several species in each genus, but still used *Musca* in a partly vernacular sense, e.g. *Musca triplis* in *Ichneumon* (p. 64) and *Musca aestivalis* in *Phryganea* (p. 62). The same seven genera were recognized in the Diptera, and Linnaeus was able to refer back to their descriptions in the *Fauna Svecica* (1746). *Musca* (page 66) is defined as follows: *Os cum proboscide absque dentibus*. The eleven characteristic species that are mentioned are arranged into the six groups (a, wing patterned; b, hairy; c, body patterned; d, aphidophagous; e, gilded; f, common) introduced in *Fauna Svecica*:

|                           |                           |
|---------------------------|---------------------------|
| a. <i>Alis variegatis</i> | <i>Musca aquatilis</i>    |
|                           | <i>Musca solstitialis</i> |
|                           | <i>Musca cerasonum</i>    |
| b. <i>Hirsutae</i>        | <i>Musca stercoraria</i>  |

|                             |   |
|-----------------------------|---|
| c. <i>Corpore variegato</i> | <i>Musca mirabilis</i>                          |
|                             | <i>Musca putrida</i>                            |
|                             | <i>Musca latrinaria</i>                         |
| d. <i>Aphidivora</i>        | <i>Proboscis elephantis</i> [=Scaeva pyrastris] |
| e. <i>Auratae</i>           | <i>Musca carnaria</i> <sup>3</sup>              |
| f. <i>Vulgares</i>          | <i>Musca domestica</i>                          |
|                             | <i>Vermiculus casei</i> [=Piophilha casei]      |

Editions 7, 8, and 9 (1748, 1753, 1756) were essentially identical with edition 6 so far as the treatment of *Musca* is concerned.

Linnaeus had used the wings to delimit the orders, and by the 10th edition (1758) he had come to use the mouth-parts to define his genera. His diagnosis for *Musca* (1758: 589), repeated with little change for the next half century, reads: "*Os proboscide carnosa: labiis 2 lateralibus: Palpi nulli*" (mouth with a fleshy proboscis: with two lateral lips: palpi absent). The division of the 100 species of *Musca* into sections (1758: 589, footnote) uses characters of the antenna and arista, and the body vestiture:

- Muscae distinguuntur antennis inermibus 1. armatis*  
*Filatae antennis absque seta aut pluma laterali*  
*Armatae antennis cum seta aut pluma laterali*  
 — *Tomentosae corpore pubescentes, saepe vix manifeste*  
 — — *Plumatis antennis pectinatae*  
 — — *Setariis antennis simplici seta*  
 — *Pilosae raris setis, imprimis in thorace conspicuis*  
 — — *Plumatis antennis*  
 — — *Setariis antennis*

Broadly speaking, species 1-13 are modern Stratiomyidae and Rhagionidae; 14-46 are Syrphidae; 47-55 are calyprates, including *Musca domestica*; 56-100 are calyprates and acalyprates. It is worth examining the entry for

species no. 54, *Musca domestica* (1758: 596) to illustrate Linnaeus' comprehensive yet succinct

method of dealing with diagnosis, bibliography, distribution, and biology.

The second edition of his *Fauna Svecica* (1761) also adopted the new nomenclature. It was a descriptive work, not a classificatory work, and *Musca* was used in the sense of 1758. It is interesting to note that Linnaeus has been accused of failing to adopt his own binominal nomenclature consistently in this work, because an appendix (p. 545-556) contains a number of descrip-

<sup>3</sup> The gilded fly (e) is evidently not the flesh fly, our *Sarcophaga carnaria*, but a greenbottle, genus *Lucilia* (cf. Shakespeare's "King Lear" (IV, 6, 115), "the small gilded fly does lecher in my sight.")



this work, because an appendix (p. 545-556) contains a number of descriptions for which the new nomenclature was not used. In fact, even a cursory examination shows that these descriptions are taken from earlier works by himself and De Geer. For example, the description of "*Musca alis albis*" (no. 2311, p. 553) is identical with that of no. 1062, p. 315, in the 1st edition of *Fauna Svecica*. In fact, the title of the appendix states quite explicitly why this is done: "an appendix in which I have set apart animals that I have collected in former times, but which I have subsequently not found for further examination." In other words, Linnaeus, the conscientious taxonomist, did not care to offer diagnoses and names for species that he had not studied for years and that were no longer available to him. [Unfortunately, some subsequent workers were not so conscientious and provided names for these species.]

Several editions and translations of *Systema Naturae* followed, all of which attempted to maintain the Linnaean system whilst incorporating the advances and additional species described by other authors. The 12th edition, by Linnaeus himself (1767), offered no change in the definition of *Musca*, and described 129 species. The de Villers edition (1789) also followed the 1758 diagnoses and divisions, incorporated the works of De Geer, Fabricius, Scopoli, and Schrank, and described 398 species including new species and new names. The Gmelin edition (1790), the 13th edition, followed Scopoli's (1763) modification of the generic description, in particular "*palpi nulli*" became "*palpis duobus brevibus*" ("with two short palpi"). Gmelin also included new species, some new names, and some collection names from "Mus. Lesk.", the species numbered but not named by Zschach (1788). Manuel (1792, 1811) continued the Gmelin tradition with a French version of the species diagnoses. Turton (1801) published an English translation of the Gmelin edition but followed the classification of Fabricius (1794) for insects. Turton maintained the increasingly inadequate definition of *Musca* by its mouth-parts and included 521 species. He marked the Linnaean species with \*, but otherwise gave almost no references to preceding authors. Thus, when an unfamiliar *Musca*-name is encountered, it is extremely difficult and time-consuming to determine if Turton is describing a new species, proposing a new name, or transferring into *Musca* a species already described in another genus, such as *Syrphus* (see discussion on page 43).

Linnaeus' foremost pupil was J. C. Fabricius (1745-1808). He worked hard to develop classificatory ideas based on mouth-parts, and was unwilling to admit that the use of other characters would contribute either to clarity or to a "natural" system: he considered that the greater the number of characters used, the greater would be the ensuing chaos. In his first work (1775) he

divided the genera of Diptera into two sections: "*os proboscide atque haustello*" (10 genera, including *Musca*) and "*os haustello absque proboscide*" (9 genera, including a few Arachnida). Apart from the proliferation of generic names, this is really scarcely different from Pliny's or even Aristotle's division of the Diptera! His diagnosis of *Musca* (1775: 773) marks a slight advance on Linnaeus: "*Os proboscide atque haustello. Haustellum seta unica absque vagina. Palpi duo porrecti, extrorsum crassiores. Antennae setariae.*" *Musca* is divided into two groups: "*antennis seta plumata*" (including *domestica*) and "*antennis seta nuda*" [arista plumose or arista bare]. Very broadly, this divides calyptrates from acalyptrates, as almost all the modern Nematocera, Brachycera, and Aschiza originally placed in *Musca* were recognized as very different and were transferred to other genera (*Biblio*, *Rhagio*, *Rhingia*, *Stratiomys*, *Syrphus*). This framework was more or less followed in his subsequent works (1777, 1781, 1787), but in 1794 (and 1798) he offered several modifications to make allowance for a number of additional genera separated from *Musca*: "*Haustellum seta unica absque vagina. Palpi duo porrecti, extrorsum crassiores. Antennae breves, clavatae, seta instructae.*" [Proboscis with a single bristle, without a sheath. Two palpi, porrect, thickened towards tips. Antennae short, club-shaped, with a bristle.]

His final work on Diptera (1805) was a monograph of the entire order. 81 genera were dealt with, including 5 now in Arachnida, and there is further refinement of the concept of *Musca*. Two generic diagnoses (1805: xii & 283) embrace the characters: "*Os haustello absque vagina. Palpi porrecti, compressi, ciliati, biarticulati, extrorsum crassiores, obtusi. Antennae breves, incumbentes, triarticulatae: articulo tertio elongato, compresso, oblongo.*" A footnote on p. 283 gives a detailed description of *Musca*. The genus is placed after *Stomoxys* and before *Tachina* and *Ocyptera*. His old division within the genus, of species with plumose arista or with bare arista, is still kept, but on this occasion there are 76 species (including *domestica*) in the "plumose" section and 45 in the "bare" section. These sections are close to the longstanding 19th century division between Muscidae and Anthomyiidae, though considerable more refinement, with the removal of many acalyptrates, was carried through by Meigen.

Contemporaneously with Linnaeus and Fabricius, entomologists were beginning to investigate in more detail their local faunas and the biology of insects. Few had a grasp of insect systematics in any way comparable with that of Linnaeus and Fabricius, yet several of them produced noteworthy insights. As always, there were those who welcomed innovative and constructive change and those who clung stubbornly to familiar certainties.

Charles De Geer (1720-1778), who saw himself as the successor of Réaumur, published a series of observations in 7 volumes of *Mémoires* (1752-1778). He gave diagnoses in Latin in a pre-Linnaean style, and volume 3 (1773) is accepted as the first to use binominal nomenclature though it is evident that De Geer was not fully happy with it, or, more probably, was simply indifferent. His method was to give a French and Latin diagnosis, as for *Musca pinastri*:

*MOUCHE velue à poil simple ...*

*Musca (pinastri) ...*

He sometimes gave replacement names for those Linnaean names that he felt to be inappropriate (see also the discussion in Persson, Pont & Michelsen, 1984):

*Mouche très-velue ...* = [French diagnosis]

*Musca (bombylius) ...* = [New name & Latin diagnosis]

*Musca (mystacea) ...* = [Linnaeus' name & diagnosis]

Occasionally he lapsed into trinomials, e.g. *Musca domestica major* [i.e. *Musca domestica* Linnaeus] contrasted with *Musca minor domestica* [i.e. *Fannia scalaris* Fabricius] (see discussion below under workers). His names were tabulated in Linnaean style by Retzius (1783). Volume 6 of the *Mémoires* (1776) dealt with *Musca*, and De Geer followed Geoffroy (1762) in his diagnosis of the genus: "*Antennes à palettes avec un poil latéral. Trompe à lèvres charnues.*" He accepted four subgroups based, as in Linnaeus, on arisal and body vestiture. The German translation of this volume (Goeze, 1782) made no change to the nomenclature or presentation.

Among the many enumerations of local faunas, the diagnosis of *Musca* by Linnaeus (1758) was followed closely by Poda (1761) working in the Graz area of Austria; Sulzer (1761) in Switzerland, who also gave fine illustrations of members of each of the 5 subgroups that he recognized; Houttuyn (1761-1763) in the Netherlands; Brünnich (1764) in Denmark, in a remarkably comprehensive and succinct textbook of entomology that included parallel keys in Latin and Danish to insect genera and their subgroups; Müller (1764, 1776) and Pontoppidan (1765), also in Denmark; Füesslin (1775), Sulzer (1776) and de Razoumowsky (1789) in Switzerland; Schrank (1781) in Austria; Schellenberg (1803) in Switzerland, in a series of beautiful colour plates of species belonging to *Musca*. Even Panzer (1794-1806) took an essentially Linnaean view of *Musca*, though the later volumes of paintings followed Meigen's genera (see the list of Panzer species compiled by Saunders, 1888). Shaw (1806) still used *Musca* exactly as diagnosed by Linnaeus almost 50 years earlier.

The Englishman Moses Harris (1776-1780) followed the Linnaean system and concept of *Musca*. However, he departed from Linnaeus in his classification of the components of *Musca*. Harris was the first entomologist to recognize the importance of wing venation as a character system for classification. Whereas Linnaeus divided *Musca* into 7 groups based on antennal (arista) structure and body pilosity, Harris divided the genus into 9 groups based largely on wing venation. He divided the genus into orders and the orders into sections, and for each he gave an enlarged figure of the wing venation. He did not describe the venation, merely referring to the figure. In the text, he frequently gave additional characters for his groups.

### Harris' subgroups of *Musca*

|                      |   |
|----------------------|---|
| Order I              | Calyptrate flies with anteriorly curved M           |
| Order II             | Genus <i>Volucella</i> (Syrphidae)                  |
| Order III, Section 1 | Syrphidae (Eristaliini) with arista pilose          |
| Order III, Section 2 | Syrphidae, with arista bare                         |
| Order IV, Section 1  | Stratiomyidae with scutellar spines                 |
| Order IV, Section 2  | Stratiomyidae (Beridinae) without scutellar spines  |
| Order V, Section 1   | Acalyptrates (complete anal vein, parallel wings)   |
| Order V, Section 2   | Calyptrates (incomplete anal vein, divergent wings) |
| Order V, Section 3   | Dolichopodidae                                      |

Unfortunately his work was ignored by Fabricius and subsequently forgotten.<sup>4</sup> Fallén and Meigen rediscovered the importance of wing venation. Harris used binominal nomenclature, that is, he used single words for species names. However, he gave genus group names in the plural (*Muscae*, *Asili*, *Tabani*, *Tipulae*) and his species names included not just nouns and adjectives but also verbal forms (*restituo*, *timeo*, *recurro*) and adverbs (*delicate*, *scitule*, *semulater*) which renders them unavailable according to the current rules of nomenclature. Harris also provided some interesting biological observations. Under his section 1 of *Musca* (which included mostly Tachinidae), he concluded that the large compound eyes in flies were not for vision but that the simple ocelli were: he put opaque white paint on the eyes of a blue-bottle fly and noted that the fly was still able to fly directly to the window, whereas this did not happen when the ocelli were covered.

The Linnaean definition of *Musca* was substantially modified by Geoffroy and Scopoli. Geoffroy (1762) separated several groups (*Stomoxys*, *Stratiomys*, *Volucella*) from *Musca* and introduced new characters into his definition of the genus, stating that it was to be recognized by a combination of characters:

<sup>4</sup> "Moses Harris never ought to have been ignored in the Diptera, in which he was more than an equal with his contemporaries in nomenclature while he was almost 50 years in advance of any other dipterologist in venation" (Verrall, 1901a: 571)



*Antennes formées par une palette plate et solide avec une soie ou poil latéral. Bouche avec une trompe sans dents. Trois petits yeux lisses ... Il dépend de deux parties, savoir des antennes et de la bouche: c'est la configuration de ces deux parties qui constitue le caractère de la mouche."*

Geoffroy divided *Musca* into families, but these subdivisions were essentially the same as those used by Linnaeus (1746, 1748). He did not use a binominal Latin nomenclature, so that his 88 *Musca* species were only validated when subsequent authors happened to mention them and give them Latin or latinized names (principally Geoffroy himself in Fourcroy, 1785; but also Schrank, 1781, 1803; de Villers, 1789; Müller, 1776; even Macquart, 1834<sup>5</sup>). For example: *La mouche à l'étoile* of Geoffroy (1762: 494, no. 3 *Musca cinerea, alis albis apice macula rotunda radiata*) is 1) *M. stellata* of Fourcroy (1785: 470, no. 3) and 2) *M. stellata* of de Villers (1789: 535, no. 333).

Scopoli (1763) advocated using all available structures for classification and modified the Linnaean diagnosis of *Musca*, pointing out that palpi are actually present: "*Os vagina carnosa, retractili: apice labiata: basi palpigera*" and (p. 325) "*Os armatum rostro retractili: apice dilatato, basi palpigero: palpis clavatis.*" Scopoli (1763: 350, footnote) admitted that he was, unfortunately, unable to detect the mouthpart characters necessary to implement the Linnaean classification. He gave essentially the same diagnosis in a later paper (1777). The subdivisions of *Musca* adopted by Scopoli were very different from Linnaeus (1758). He utilized a wide range of structural features (position of wing at rest, abdominal shape & antennal posture) and made many valuable insights.

Schaeffer (1766b) followed both Geoffroy and Scopoli, for example including the presence of palpi and of three ocelli in his description. Yeats (1773) gave a collation of the Geoffroy, Schaeffer, Scopoli, and Linnaeus systems, and Müller (1775) gave a similar review incorporating the results of Houttuyn (1761-1763). Even in the late 1770's, works were appearing in which binominal nomenclature was not accepted, e.g. Schaeffer (1776a: plate 17, fig. 4 "*MUSCA spathula antennarum truncata PRIMA. Erste Hausfliege mit abgestutztem Spadel.*"). Even Barbut (1781), in an exposition of the Linnaean system, listed one of his three cited *Musca* as "*Musca vespae similis,*" which is actually *Musca vespiformis* Linnaeus. Grossinger (1794), in a manual of entomology covering systematics, biology, practical importance, ecology, etc., used *Musca* in the Linnaean sense but mentioned neither Linnaeus nor Fabricius: His sources were Aldrovandus, Swammerdam,

<sup>5</sup> See *Onesia fulvipennis* sp. n. (Macquart, 1834: 175), "*Musca no. 60 Geoff. En automne sur le lierre*"; but already given the name *Musca hederacea* by Geoffroy (1785: 491).

Schwenckfeld, Goedart, Frisch, and, amongst the “classical” systematists, Poda.

The Fabrician era, as already mentioned, saw a proliferation in the number of genera and a progressive refinement in the definition of *Musca*, culminating in Fabricius (1805). Gradually, Fabricius’ more restricted concept of *Musca* supplanted that of Linnaeus. Herbst (1787) gave a German diagnosis of *Musca*, using characters of the antennae and mouth-parts, and pointed out that *Musca* of Linnaeus was the equivalent in Fabricius (1777) of *Bibio*, *Stratiomys*, *Rhagio*, *Syrphus* and *Musca*. Forster (1788, 1794) and Roemer (1789) gave an identical diagnosis of *Musca*: this is a very pragmatic version, combining elements of Linnaeus, Fabricius, and Geoffroy. Fabricius (1787) was followed by Rossi (1790, 1794) and Illiger (1807), Petagna (1792), Fabricius himself (1794) and Cederhielm (1798). Schrank (1803) added several characters to the diagnosis of *Musca*, such as the conformation of the abdomen and halteres, but these were not discussed by Fabricius (1805). Nor could the elderly Fabricius accept the much more radical proposals put forward by Meigen (1804), though these two discussed their views and their differences in the course of personal meetings.

Zoologists working in France during the late 18th and early 19th centuries were system-builders, and by using characters from all parts of the insect anatomy were moving towards a more “integrated” system. Lamarck (1801, 1816) and especially Latreille (1796, 1802, 1809, 1810, 1818, 1825, 1829) were the most prolific and influential figures. Latreille was the first to introduce the concept of the “family,” and was highly adaptable, modifying his views from work to work as knowledge of the groups advanced. The definition of *Musca* was based on Geoffroy and Fabricius, and typically runs as follows: “*Antennes à palette, composées de trois articles, dont le dernier porte une soie latérale. Trompe membraneuse, à orifice bilabié, rétractile en entier. Sucoir d’une ou deux soies. Deux antennules insérées sur la trompe.*” (Lamarck, 1801: 310). Within this Lamarck recognized two sections of *Musca*, one with a plumose arista (citing *Musca domestica*) and one with a bare arista. Latreille (1796: 170; 1802: 452) was the first to use the size of the calypters as a feature in classification, and this is still reflected in the “Calyptrate” and “Acalyptate” sections of the Muscomorpha (Schizophora). At this time he was using *Musca* in an early Fabrician sense, but as the number of genera multiplied during the first decades of the 19th century he adapted his own classification to accommodate them (Latreille, 1809, 1818, 1825). Latreille generally cited *vomitaria sensu* Fabricius (often with other species) as the typical species of *Musca*.

In a curious work, Walckenaer (1802; see also Bezzi, 1907) transferred 7 species of "*Musca*," including *domestica* and *vomitorea*, to Latreille's genus *Lispe*, retaining 25 species (including modern Tachinidae, Muscidae, Scathophagidae, Acalyptrates) in the old genus *Musca*. The old-fashioned work of Samouelle (1819) also had its roots in this era.

Carl F. Fallén (1764-1830), who specialized in Swedish Diptera, recognized *Ocyptera* and *Tachina* as distinct from *Musca* (1810, 1817, 1820-1825) but was otherwise rather conservative in his approach. He eventually described 133 species of *Musca*, dividing them into major groups according to the course of vein M (Fallén, 1817, 1820): M with an angular bend forward towards vein R<sub>4+5</sub>, M with a rounded forward curvature, or M running straight to the wing-margin. This is, of course, a very useful division, but Fallén's distinction between *Tachina* and *Musca* was very woolly so that his *Musca* still included many modern Tachinidae, Sarcophagidae, and Calliphoridae as well as *Musca domestica* and its allies; he placed *Musca tempestiva* in the group with more roundedly curved M.

The great J. W. Meigen (1764-1845), the founder of European dipterology, gave a preliminary review of genera (Meigen, 1803) in which he separated *Musca* from *Miltogramma*, *Anthomyia*, and *Stomoxys*, but still included in it the species *domestica*, *carnaria* (subsequently removed to his *Sarcophaga*), and *caesar*, etc. Shortly after this he critically reviewed (Meigen, 1804) the classifications of Linnaeus, De Geer, Fabricius, and Latreille and also discussed new characters in the venation, antennae, legs, etc. that he had discovered (Meigen, 1804, 1818). His definition of the family "Muscides" (Meigen, 1824: xi-xii) is equivalent to the genus *Musca* of his predecessors, and he divides the old "*Musca*" up into a large number of genera (1826: ix). Genera in which vein M is curved forward towards vein R<sub>4+5</sub> (*Idia*, *Mesembrina*, *Sarcophaga*, *Dexia*, *Musca*) form one group, and genera in which vein M is straight (*Anthomyia*, *Coenosia*, etc) form another. Indeed this division, later formalized as "Muscidae" and "Anthomyiidae," lasted until 1894 when Girschner discovered that the presence of meral (hypopleural) bristles would separate the tachinoid families from the muscoid families, and *Musca* (Muscidae) was definitively separated from *Lucilia*, *Calliphora*, and *Pollenia* (Calliphoridae) (see also Collin 1948). *Musca* was defined by Meigen (1826: 49) as follows, a definition not very different from his early (1803) diagnosis:

*Fühler aufliegend, dreigliederig: das dritte Glied verlängert, stumpf, prismatisch zusammengedrückt: an der Wurzel mit einer gefiederten Rückenborste. Hinterleib eirund, borstig. Flügel halb offen, mit einer Querader an der Spitze.*

*Musca* was now a very much more restricted taxon, comprising the modern Calliphoridae (except Rhiniinae) and Muscidae with a forwardly-curved vein M. Meigen recognized two subgroups, one of shining green unmarked flies (A) and one of differently-coloured flies with striped mesonotum (B); each was further subdivided into those with an angular bend to vein M (a) and those with a rounded curve (b). *Musca domestica* and its relatives were placed in group Ba, together with most of the modern Calliphoridae, whilst *Musca tempestiva* was assigned to group Bb, alongside the present genera *Morellia* and *Muscina*.

Meigen's work was enormously influential and was followed by most of his contemporaries and successors. Wiedemann (1830) gave no diagnosis of *Musca*, but followed Meigen's generic arrangement and the groups within *Musca* for his own work on the non-European species. Two important checklists of British insects followed Meigen (Stephens, 1829a, 1829b; Curtis, 1831, 1837), and his was the classification adopted in faunistic lists and reports: Brullé (1832), Haliday (1833), Eversmann (1834), Bouché (1834), Curtis (1835), Wilson (1835). Even Latreille (1829) was modified in English translation to incorporate Meigen's genera as subgenera (Griffith, 1832).

Two other figures were important during this period, both Frenchmen: the brilliantly eccentric A. J. B. Robineau-Desvoidy (1799-1857) and the more pedestrian but conscientious J. Macquart (1778-1855).

Robineau-Desvoidy's youthful and genial *Essai sur les Myodaires* was completed when the author was in his mid-twenties but was not published until it had been submitted to a protracted series of committees. It is a long and complex work, characterized as "impenetrable" by Brullé (1832). Even before its publication, Latreille (1829) criticized it on a number of grounds: the use of imprecise characters, the formation of groups based on habits, colour and other vague features, the re-naming of previously established groups. Others found the proliferation of genera and the huge number of species unacceptable and criticized the description of almost every species as new, without consideration of the preceding work by Fallén and Meigen. The *Essai* is a monograph of the Muscomorpha (Schizophora): of its 813 pages, some 40% are devoted to our modern Tachinidae and 75% to the Calypttrata. What Meigen treated as his Muscides with vein M curved forward (the 19th century "Muscidae") comes at the end of Robineau-Desvoidy's 1st division Calypteratae (section Sarcobiae & Coprobiae, "families" Theramydae (in the Vivipara) and Muscidae (in the Oviparae)), and includes 46 genera where Meigen had 5. Meigen's Muscides with vein M straight (the 19th



century "Anthomyiidae") becomes the entire 2nd division Mesomyidae and includes 44 genera where Meigen had 6.

Interpretation of Robineau-Desvoidy's taxa is bedevilled by the almost total destruction of his collection and it was only in the early decades of this century that most of his genera were recognized and either brought into use or assigned to synonymy. With prolonged study it is possible to interpret most of his work in a rational and logical way.

One section of his Muscidae is termed "Muscidae armentariae," defined by features of the antennae, arista, head-profile, proboscis, and venation. This consists of four genera, which are all now included within *Musca*. It has to be admitted that their definition is poor and recognition is only practical when combined with the species descriptions and habits:

|                   |                                     |   |
|-------------------|-------------------------------------|---|
| <i>Plaxenya</i> . | 1 species.                          | Now recognized as a species-group within<br><i>Musca</i> .                              |
| <i>Byomya</i> .   | 3 species.                          | Also recognized as a species-group within<br><i>Musca</i> .                             |
| <i>Sphora</i> .   | 2 species, from Australia.          | Both now synonymized with <i>Musca</i><br><i>domestica</i> .                            |
| <i>Musca</i> .    | 13 species, European and<br>exotic. | All now synonymized with <i>Musca</i><br><i>autumnalis</i> and <i>Musca domestica</i> . |

This is a very restricted view of *Musca*, and one which is not even accepted nowadays, though almost a century later Malloch and Townsend did attempt to restrict *Musca* to *domestica* and to raise the related segregates to generic rank.

Robineau-Desvoidy fell out with his contemporaries, especially his fellow-Dipterist Macquart, and became increasingly isolated and eccentric both scientifically and socially. He died prematurely, worn out by his selfless work as country doctor in an impoverished and unhealthy district and embittered by the rejection of his work by his scientific peers. They were unable to accept or even comprehend his many genera, though the more obvious segregates were picked out and used either as genera or as subgenera (e.g. *Lucilia*, *Pyrellia*, *Pollenia*, *Calliphora*).

Macquart (1834, 1835), by combining the best elements of Meigen and Robineau-Desvoidy together with his own insights, arrived at a concept of *Musca* (though not a definition) that is in no way different from that in use today. He gave a key to the genera of "sous-tribu Muscines" (1834: 9) that distinguishes *Musca* by having the arista haired on upper and lower surfaces, 1st posterior cell (cell r<sub>4+5</sub>) almost closed, and antenna long with basoflagellomere 3 times as long as pedicel. He accepted Robineau-Desvoidy's genera *Pollenia*, *Calliphora*, and *Lucilia* (now Calliphoridae), and assigned

“*Musca*” species with a smoothly curved vein M to a new genus *Curtonevra*. Writing of *Musca*, he stated “ce genre ... est arrivé ... à ne contenir que la Mouche domestique et quelques espèces voisines” (1834: 19). He gave a key to Robineau-Desvoidy’s segregates of *Musca*, perceptively noting the haired eyes and unusually hyaline wings of the species *vitripennis* Meigen (*Plaxemya* of Robineau-Desvoidy). He retained the species *tempestiva* Fallén in *Musca* though several later authors were to transfer it to *Curtonevra* because of the less angular forward bend of vein M.

Much of this material was repeated in 1835, though he there gave a slightly more elaborate description of *Musca* to include the head profile (epistoma not or little projecting) and mentioning that the forwardly-curved section of vein M is generally recurved (Macquart, 1835: 235).

In his final work, Meigen (1838: 290-291) discussed the subdivisions of *Musca* proposed by Robineau-Desvoidy and Macquart and went a little way to accomodating some of them. He used the names *Lucilia* and *Pyrellia* for his greenbottle subdivisions (Aa and Ab); he accepted *Curtonevra* (Bb) (with segregates: bare eyes and hairy eyes) and retained *Musca tempestiva* here; and he accepted *Pollenia* as a distinct segregate within *Musca*, which was otherwise retained in the broad sense of his 1826 work (Ba).

During the latter part of this period (1800-1840) there was no awareness that the principal domestic flies — the house fly (*Musca domestica*) and the bluebottles (*Calliphora* spp.) — might belong to separate groups. Although there was no sense of a formal “type-species” as we now understand it for the genus *Musca*, entomologists did have a feeling for a type or typical species, and both *Calliphora vomitoria* and *Musca domestica* were regarded as typical species of *Musca*.

### Meigen to Stein (1838-1921)

There followed a very long period during which few advances were made in the systematics of *Musca*. The genus had been refined to *domestica* Linnaeus and its immediate allies, and it was realized that the European fauna was very small. The interest of system-builders and describers alike centered on other groups and on the wealth of tropical forms being brought back to European collections by travellers and colonial settlers.

The most prolific describers of exotic species were J. Macquart, F. Walker (1809-1874) and J. M. F. Bigot (1818-1893). Macquart (1843) gave a tabulation of genera, which shows that he was still satisfied with his earlier definition of the genus, and he did indeed find that all the exotic species submitted to him (about 20; Macquart, 1843, 1846, 1851, 1855) “*se rappo-*

*chent plus ou moins de la mouche domestique ou de la mouche corvine*". Despite his tendency to describe the same species several times and to create homonyms, it is fair to say that Macquart's work was of a much higher quality, in terms both of his perceptions and his procedures, than that of Walker and Bigot. Walker (1849) used *Musca* in Meigen's very broad sense and incorporated Robineau-Desvoidy's (1830) divisions and genera as subgroups of *Musca* into his attempt to arrange world material. Thus, within *Musca s. lat.* he had a section "*Muscidae armentariae*" in which he listed the generic names *Plaxemya*, *Byomya*, *Sphora*, and *Musca*, describing several new species within this restricted *Musca* but without understanding or offering any interpretation of the other Robineau-Desvoidy names. Walker re-iterated this broad concept of *Musca* in two subsequent papers (Walker, 1853a, 1853b) and followed it in all his descriptive papers. This concept was hardly progressive, since large numbers of *Musca* were described that are now scattered in the families Calliphoridae and Muscidae, and even Sarcophagidae and Tachinidae, and the original combination and description give little indication of the actual affinities of each new taxon. Bigot's work too contributed little to progress. In his major paper on the group (Bigot, 1888a), he discussed the families Stomoxyidae and Muscidae, the latter being the equivalent of Meigen's genus *Musca*. His key to the genera of Muscidae gave a taxonomic definition of *Musca* based entirely on Rondani (1856 - see discussion below), but he failed to clarify the identity of *Byomia* [sic] Robineau-Desvoidy, which he considered most likely a synonym of *Musca*, and he assigned *Plaxemyia* [sic] Robineau-Desvoidy to his Stomoxyidae.

In Europe, the writers of entomology treatises and textbooks followed Meigen, with Macquart's modifications. For example, Westwood (1840) listed 6 genera in his "*Muscies*," *Lucilia*, *Calliphora*, *Musca*, *Pollenia*, *Mesembrina*, *Curtoneura*. Blanchard (1840) had a less clear-cut concept of *Musca*, giving a diagnosis and including the three species *vomitorea* [*Calliphora*], *domestica* [*Musca*], and *meridiana* [*Mesembrina*]. Morris' (1865) list of British insects followed Meigen precisely.

J. W. Zetterstedt (1785-1874) worked for many years on the Diptera of Scandinavia. His first definition of *Musca* (Zetterstedt, 1838: 652) alluded to some 50 Scandinavian species. Of the 31 enumerated in this work, several belong to the modern Tachinidae, Rhinophoridae, and Calliphoridae. His family "*Muscariae*" (Zetterstedt, 1842: 5) was equivalent to Meigen's genus *Musca* and he recognized six genera: *Lucilia*, *Pyrellia*, *Musca*, *Mesembrina*, *Cyrtoneura*, *Cinochira* (Zetterstedt, 1845: 1312). This is based on Macquart. He defined several subdivisions of *Musca*: thoracic dorsum tomentose (*Pollenia*), thoracic dorsum not tomentose and palpi yellow [various Cal-

liphoridae], and thoracic dorsum not tomentose and palpi black [*domestica*, *corvina*, and the Calliphorid *azurea*]. He assigned the species *Musca tempestiva* to *Cyrtoneura* because of its more roundedly curved vein M.

The work of Camillo Rondani (1807-1879), which was concerned mainly with Italian Diptera, marked a real step forward in the systematics of the Muscidae and Anthomyiidae. Not only was his method excellent — keys to genera and species, descriptions of all taxa, and type-species listed for the genera — but he discovered new and significant characters on which to base his re-classification of the groups. His treatment of *Musca* illustrates this. His key diagnosis of the genus (Rondani, 1856: 89) gives the following combination of characters: mid tibia without an internal (i.e. ventral) bristle, and 5th longitudinal vein (vein M) with an angular forward curve. This is precisely the definition still given for the genus (e.g. Hennig, 1963: 905; Emden, 1965: 39). In fact, Rondani recognized two genera where we would now recognize one: eyes bare (*Musca*, 4 species) and eyes haired (*Plaxemya*, 2 species). In revising the species (Rondani, 1862: 220) he correctly included *tempestiva* in the genus *Musca* rather than in *Cyrtoneura*.

The Austrian I. R. Schiner (1803-1873) produced a work that became the standard manual on European Diptera until well into our own century (Schiner, 1862). He based his treatment of this group on that of Rondani and defined *Musca* as having the arista densely plumose on both surfaces, vein M with an angular forward bend towards vein R<sub>4+5</sub>, and mid tibia without bristles inside (Schiner, 1862: lxxxvii). He did not accept Rondani's division of the genus into two, but defined two species-groups that were in any case different from Rondani's *Plaxemya* and *Musca*: hind cross-vein (dm-cu) closer to the bend of M than to small cross-vein (r-m) (*domestica*, *corvina*), and hind cross-vein (dm-cu) midway between the bend of M and small cross-vein (r-m) or closer to the latter (*vitripennis*, *phasiaeformis*, *tempestiva*). This work was followed by many European workers for their own local faunas, e.g. Kowarz (1873), Verrall (1888, 1901b).

It is worth pointing out here that details of the venation still confused taxonomists, in particular the elbowed or rounded forward bend of vein M. The eremophilic Old World *Musca lucidula* was described by Loew (1856) as a species of *Cyrtoneura*.

In an uncompleted posthumously-published work Robineau-Desvoidy (1863b) returned to the genera of the "higher" Muscidae. He retained his division "*Muscidae armentariae*" with the three genera *Plaxemya*, *Byomya*, and *Musca*, giving diagnoses that are scarcely different from those of his 1830 work. He recognized one species of *Plaxemya* (*vitripennis* Mg.), 3 species of



*Byomya* (all synonyms of *tempestiva* Fallén), and 15 species of *Musca* (all synonyms of *autumnalis* and *domestica*, except for one subsequently transferred to *Pollenia* (Calliphoridae)). His system was largely followed by Lioy (1864), who produced a synthetic work, without originality and apparently in ignorance of most of the work of his fellow-countryman Rondani. Lioy's genera (*Musca*, *Plaxemya*, *Byomya*) and their diagnoses were taken directly from Robineau-Desvoidy's work. When asked for his verdict on Lioy's work (and his reason for ignoring it), Rondani replied that "*c'est de la poésie.*"

Following from Schiner, the Austrians F. M. Brauer and J. E. von Bergenstamm dealt comprehensively with the European Tachinoidea, together with a large number of exotic forms, and their work also covered the groups of Muscidae with a forwardly-curved vein M. Their interpretation of *Musca* and allied genera was naturally based on that of Rondani and Schiner and they accepted Rondani's separation of *Musca* into two genera, though any merit in this division was obfuscated by inaccuracies in their differentiation (Brauer & Bergenstamm, 1889: 156):

Eyes bare, almost touching in ♂, separated in ♀, etc.

*Musca* L. s. str. Rdi., *domestica* L.

Eyes haired in ♂, pubescent in ♀. Frons of ♂ moderately broad, very broad in ♀, etc.

*Placomya* R.D. emend. (*Plaxemya* R.D.) *vitripennis* Mg.

This distinction was maintained to the end of their work (Brauer & Bergenstamm, 1893: 179) and the authors also included a check list of the species that they studied (Brauer & Bergenstamm, 1891: 419), which was useful insofar as it also indicated some of the early type/syntype material located in the Vienna Museum.

The last great systematic work of the century was by the Frenchman L. Pandellé (1824-1905) and comprised a monograph of the "Muscidae" (i.e. both calyptrates and acalyptrates) of France. He introduced a number of new characters from the chaetotaxy of the body, wings, and legs into the taxonomy of the Schizophora and also pioneered the study of male genitalia. Independently of his contemporaries, he discovered the value of the chaetotaxy of the body and legs, but the prolixity of his text and absence of any illustrations deprived him of any justly-earned credit for these findings. Pandellé (1898a: 20-23) gave a key to the genera of his division "*Muscées*" that was quite different from that of his immediate predecessors, using a wealth of characters that were mostly new. His "*Muscées*" included *Mesembrina*, *Pyrellia* (in a very expanded sense), *Musca*, *Stomoxys*, *Gymnodia*, *Graphomya*, and *Muscina*. His genus *Musca* (Pandellé, 1898b: 40) is entirely modern in its scope and with many features in the generic description that

were independently rediscovered by the next generation of taxonomists. Four species were included: *vitripennis*, *tempestiva*, *corvina*, and *domestica*.

Pandellé (1894, 1896) and Girschner (1894, 1896, 1897) were both influenced by the work on chaetotaxy of Osten Sacken (1881b, 1884) and independently arrived at the conclusion that muscids with an angular vein M and bare meron belonged to the Anthomyiidae/Anthomyiidae and not to the Tachinidae/Tachinidae as previously believed. In retrospect, it is apparent that Pandellé's proposals for the classification of the Schizophora were superior in several respects to those of Girschner. Nevertheless, it was Girschner's views, expressed succinctly and accompanied by clear and schematic drawings, that had the greater influence on 20th century dipterology.

The greatest stimulus to the work of the early part of the 20th century came from the biological investigations by the Russian J. A. Portsichinsky (1848-1916). In an important pioneering paper published in 1885 (abstracted and discussed in German by Osten Sacken, 1887), Portsichinsky drew attention to an apparent dual reproductive strategy in *Musca corvina* [i.e. *autumnalis*]: although normally laying some 24 large eggs, females in the south of Russia (Crimea and Caucasus) incubated a single large egg and laid a 3rd instar maggot. It is now clear, of course, that two species were involved here, as Portsichinsky himself subsequently recognized (Portsichinsky, 1910). He continued with his investigations of oviparous and viviparous Muscidae and of their coprophagous, saprophagous, and carnivorous larvae (Portsichinsky, 1892, 1910, 1911), and his later work was reviewed by Townsend (1911). There is no doubt that this was enormously influential in alerting field entomologists to the biological interest of this group, at a time when the medical and veterinary importance of *Musca*-flies was increasingly being recognized and this gave a tremendous impetus to the fundamental work on the group that followed during the 1910s and 1920s.

Throughout this period (1885-1920) the dominant figure in the taxonomy of the Muscidae was the German Paul Stein (1852-1921), who specialized almost exclusively on this group and who single-handedly brought order to the chaos into which the group had sunk during the course of the 19th century. From the modern standpoint, Stein's concept of genera seems rather limited, but his grasp of species was remarkable. His papers were methodical and comprehensive and almost invariably contained keys; he travelled to the centers of European Dipterology in Germany, England, Sweden, and France, to study the types of earlier authors; and, towards the end of his life, he was able to produce a key to all the European Muscidae (Stein, 1916), a key to the world genera (Stein, 1919), and catalogues of the world species (Stein,

1919; in Bezzi & Stein, 1907). Stein was most interested in the "Anthomyiidae" (in the 19th century sense) and so *Musca* and allied genera were rather peripheral to the main thrust of his work. He followed Schiner (1862) in his concept of the genus *Musca*. Reviewing extensive collections from the Afrotropical and Oriental regions, he was the first to realize how large and diverse the genus might prove to be (and how very slipshod and inadequate for the most part his precursors in tropical Muscidae had been). For the first time (Stein in Bezzi & Stein, 1907) the Palearctic *Musca* species were catalogued, with an inventory of recognized species, *species incertae*, and synonyms, a total of 46 names.

The first two decades of the century also saw the initiation of several other strands of work on *Musca* which did not come together until the work of Patton and Malloch in the 1920s. The American tachinid specialist C. H. T. Townsend was always interested in the importance of reproductive biology for systematics (e.g. Townsend, 1913) and on several occasions he briefly turned his attention to the genus *Musca*. He was an advocate of the concept of restricted genera and he realized from Portschinsky's account of *Musca corvina* [*autumnalis*] that the reproductive biology of this species was very different from that of *Musca domestica*. He erected the new genus *Eumusca* for this species (Townsend, 1911). A few years later, after studying published work on the Indian *Musca* species, he erected the genus *Viviparomusca* for the viviparous species *bezzii* Patton & Cragg (Townsend, 1915) and another genus *Awatia* for the species *indica* Awati (= *planiceps* Wiedemann) because it was a larviparous member of the *Philaematomyia*-group and had well-developed presutural dorsocentral setae.

Among blood-sucking Muscidae collected in the first decade of the century were species of *Musca* that could abrade vertebrate skin and suck blood, but at first it was not realized that these were true *Musca* rather than biting Stomoxyinae. Austen (1909) described a new genus *Philaematomyia* (for a species subsequently found to be identical with *crassirostris* Stein) which he characterized as "a remarkable connecting-link between the ordinary non-biting Muscinae and Stomoxydinae." He noted that the powerful proboscis could not pierce vertebrate skin but that the flies used the enormous prestomal teeth to cut the skin and then sucked up blood. He did not consider it to be particularly related to *Musca*. Brunetti (1910) described a new genus *Pristirhynchomyia* (for a species subsequently found to be identical with *conducens* Walker) which he considered transitional between *Philaematomyia* and *Musca*: he excluded both genera from the Stomoxyinae, though without giving any reasons. He noted that his species was also a "biting fly," unable to pierce the skin but able to enlarge existing wounds or sores.

It has been gradually realized that these features in biology and structure are progressive and that various evolutionary stages are represented within the genus *Musca*, as they are in other genera of the Muscini. The fragmentation of the genus on the basis of a few autapomorphies results in a series of typological units rather than monophyletic groups and does not reflect the evolutionary history of the genus.

Work in India by Awati (1915-1920) and Patton & Cragg (1912, 1913a, b) increased the number of species and paved the way for advances made in the 1920s. Awati's work was particularly important, since he looked in such detail at a wide range of morphological, anatomical, and biological features, but the lack of any reference material from his work has hampered the recognition of the actual species that he discussed: indeed, it is still not possible to interpret all the names that he proposed. Patton did an enormous amount of fieldwork and breeding of *Musca* species in South India and this bore fruit when he returned to England and began extensive studies on the taxonomy and systematics of *Musca*: he was able to combine his first-hand knowledge of reproductive strategies, biology, adult feeding habits, etc. with his systematic researches. Both authors used *Musca* in the broad sense defined by Stein.

### The Modern Era (1921-1992)

A conflict between generic "lumpers" and "splitters," familiar in most groups of insects, developed during the 1920s, but a careful study of various character-suites among the species of *Musca* and a better understanding of the evolutionary trends within the genus soon gave rise to a delimitation of the genus which has remained stable now for 60 years. The various splinter genera defined during the 1920s are recognized at the level of subgenera or species groups.

The period up to 1937 was dominated by the Briton W. S. Patton (1867-1960). Through his first career in the Indian Medical Service, Patton developed an interest in all the higher flies of medical and veterinary importance (especially Muscidae and Calliphoridae) and these early years of practical work underpinned all his subsequent systematic research. His correspondence and exchanges with other muscoid workers of the day (E. E. Austen, J. Villeneuve, J. M. Aldrich, and especially M. Bezzi) showed him that the same species were often masquerading under several different names and that the names themselves were often applied in a quite haphazard and inconsistent manner. Believing that he understood the species and species limits sufficiently well, he studied the types and other material in European museums and private collections (Patton, 1922a, 1923a, 1923b, 1925). From



this basis he proceeded to publish revisions of the Oriental species (Patton & Senior-White, 1924; Patton, 1937a, b), Afrotropical species (Patton 1926, 1936), and Palaearctic species (Patton, 1933b, c). He also undertook more fundamental comparative studies of the male genitalia (Patton, 1932, 1933a), the antennae (Patton & MacGill, 1925), the evolution of the bloodsucking habit (Patton, 1934), and supervised a comparative study of the female ovipositor (Ho, 1938).

Patton was convinced that *Musca* as he understood it (and as Stein had understood it, and as the present generation still understands it) was an indivisible monophyletic unit. He put forward characters to support this contention, such as the autapomorphous presence of a large sensorium at the base of the antennal basoflagellomere (Patton, 1932) and also adduced arguments to show that the more striking biological features in *Musca* (such as viviparity and modifications in the female reproductive system, adaptations in the male genitalia, biting and bloodsucking) are progressive and, in the case of the blood-feeding, have arisen more than once within the genus. He recognized only three groups in the genus, the *domestica*-group, the *sorbens*-group, and the *lusoria*-group. In discussion he was able to persuade Bezzi that this was the right course, though Bezzi had earlier joined in the fragmentation process begun by Townsend. He dismissed Townsend's splinter genera with derision. But he could not reach any accord with Malloch and the two remained irreconcilable. It is clear now that even Patton misidentified a great deal of material: throughout his long career he re-identified, mis-identified, and changed his mind about species limits and names and his keys are generally poor, based on rather weak characters and difficult to use. Malloch too misidentified species. It is obvious that much of their argument over detail can be resolved once it is known what species they actually meant by particular names: for instance, both had dogmatic views over where "*planiceps* Wiedemann" should be placed, yet neither correctly identified this species and, as they were probably not even discussing the same species, their discord appears completely futile. On a higher systematic level, the argument resolves itself over the ranking of hierarchies, whether as species groups (Patton) or genera (Malloch). The present system, largely worked out by Emden (1939, 1965), represents a synthesis of the work of Patton and Malloch.

The Italian Mario Bezzi (1868-1927) worked on *Musca* at various stages of his career, mainly describing new species. He gave a key to all the Mediterranean and African species, and recognized a number of subgroups (Bezzi, 1911). Turning to the blood-sucking forms (Bezzi, 1921) he showed that the species of *Musca sensu* Stein were now distributed among two

subfamilies, Philaematomyiinae (*Philaematomyia*, *Pristirhyncomyia*, *Ptilolepis*) and Muscinae (5 genera). He subsequently (Bezzi, 1923) described another subgenus, *Lissosterna*, for the desert species *Musca albina* Wiedemann.

The work of the Scottish-American John R. Malloch (1875-1963) advanced knowledge of the family Muscidae to a quite remarkable degree and in two studies of the genus *Musca* (1924, 1925; further notes in 1929b, 1932) he showed the innovative approach and remarkable ability to perceive new characters that are evident in all his work. He discovered several valuable features for identifying and classifying species of *Musca*, some of which were adopted, albeit reluctantly, by Patton. He too was uncertain how to rank the groups that he could define: "It is difficult to assign a definite status to the segregates herein accepted, for, while some workers would consider them as valid genera, others would just as certainly rank them at most as subgenera, or even refuse to accept them as named divisions" (Malloch, 1924: 132). He proceeded to list them as genera (1924), then as subgenera (1925) but with *Philaematomyia* and *Ptilolepis* as separate genera, and then finally as full genera again (1929b), recognising a total of 8 genera (*Musca*, *Byomya*, *Lissosterna*, *Plaxemya*, *Philaematomyia*, *Eumusca*, *Viviparomusca*, *Ptilolepis*). This work was rejected by Patton, who regarded it as a falsification of the true relationships within *Musca*. Since both were handling in part misidentified material, it was not possible for them to find any common ground at all, though subsequent work has acknowledged merit in both approaches.

Two contrasting views of *Musca* appeared in 1937. Townsend summarized his views on the genera of the Muscini and divided *Musca* into eleven genera: *Awatia*, *Byomya*, *Eumusca*, *Lissosterna*, *Musca*, *Philaematomyia*, *Plaxemya*, *Pristirhynchomyia*, *Ptilolepis*, *Sphora*, and *Viviparomusca* (Townsend, 1937). Since these segregates were based on the study of a very few species and were founded often on biological or anatomical features, they have not been accepted by anyone. In the same year, Séguy (1937) produced a volume for *Genera Insectorum* that gave a catalogue of World Muscidae. He followed Malloch's (1925) concept of *Musca*, but ranked the blood-sucking *Ptilolepis* and *Philaematomyia* as distinct genera. For these three genera he catalogued a total of 92 species, with 164 names (valid and synonymous). The 92 species include a number that are no longer recognized in *Musca*, *species incertae*, misidentifications, and names that are now synonyms, whilst several names that do in fact belong to *Musca* were overlooked by Séguy.

The most significant work since that time has been done in England by F. I. van Emden (1898-1958). He gave a most sympathetic account of the work by Patton, Malloch, and Ho (Emden, 1939: 73-76) together with a comprehensive key to the Afrotropical species and pointed out that there was indeed no serious discrepancy between Patton's, Ho's, and Malloch's classifications of *Musca*. Apart from a very few anomalous, perhaps misidentified, species and the ranking of the categories, the three systems agreed very well. Emden was thus able to maintain *Musca* in the traditional sense and, by elaborating the characters discovered by Malloch and other authors, to define a series of groups within the genus, several of which are monophyletic. Where existing names were available for these groups, Emden used them as subgenera, thus recognising 7 named categories. In his treatment of the Oriental species (Emden, 1965) he adopted the same arrangement and recognized the same number of groups (subgenera) as had Malloch, though his definitions are far more comprehensive and sophisticated. It was only with the work of Emden that species-limits and species-nomenclature reached a level generally felt to be satisfactory though there are still areas (for example, the Oriental species of the *Viviparomusca*-group) where further work is required.

Most of the other published work over the last 40 years has been descriptive (more closely defining the known species and describing new species) and clarificatory (studying the types of older authors and elaborating distributions). Authors have adopted the same consensus view of *Musca* and, for the most part, of its subgroups. A different view of the subgroups was put forward by Zielke (1971c), who recognized only two groups, the *lusoria*-group and the *sorbens*-group (the latter including Patton's *domestica*-group). However, these groups were not defined, except in the most general way, nor did Zielke give any indication as to which species he assigned to each group. Hennig (1964: 978-982) sought to establish which of the subgroups of *Musca* were monophyletic and he used the results of Patton and Ho for his discussion of character-transformations. He too reduced the number of subgroups that should be recognized in the genus.

As a postscript, reference should be made to the contribution of larval studies to *Musca* systematics. The pioneer work by Thomson (1937, 1947) and Zimin (1948) was summarized by Emden (1965), who was able to list a larval autapomorphy to support the conclusion that *Musca* is a monophyletic genus: mouth-hooks asymmetrical, the left one shorter than the right one. A detailed treatment of the immatures has recently been given by Skidmore (1985), and a comparative account of the family by Ferrar (1987).

### The type species of the genus *Musca* Linnaeus

As mentioned above at the conclusion of section 2, it was generally considered in the early part of the 19th century that the domestic flies *Calliphora vomitoria* and *Musca domestica* were the typical species of the genus *Musca*. Several examples have already been cited. The following interesting cases deserve to be quoted here.

The first formal statement of a species acting as type of *Musca* (“*espèce qui ... sert de type*”) was by Latreille (1810), who named it as *Musca vomitoria* sensu Fabricius (i.e. *Calliphora vomitoria* Linnaeus: Calliphoridae). Curtis (1835) gave *Musca caesar* as the type (i.e. *Lucilia caesar* Linnaeus: Calliphoridae). Macquart (1834) had effectively restricted the genus to *domestica* and its immediate allies, but Westwood (1840) was the first formally to designate *domestica* L. as the type of *Musca*.

Now, one can argue indefinitely about what these authors meant by “type” and also what their interpretations of the various cited taxa may have been, but it remains a fact, as Townsend (1915) pointed out, that the first valid citation of a type species for *Musca* is of a species now placed in the family Calliphoridae. Townsend (1915) followed the logical consequences of this, prescribed by the existing rules of nomenclature: he transferred the generic name *Musca* to the Calliphoridae, to replace *Calliphora*, and proposed the new genus *Promusca* for *domestica* and its allies. It took 10 years of discussion and an ICZN Opinion (ICZN, Opinion 82, 1925) to uphold the common-sense view that *domestica* should be type species of *Musca* and thus to ratify a binomen that is almost as well known as that of *Homo sapiens*.

### The genus *Musca* Linnaeus

*Musca* in current status consists of 66 recognized species and 7 subspecies, for which 221 species-group names, valid and synonymous, have been created. Key works on the genus are: New World (Vockeroth, 1953); Palaearctic (Hennig, 1964); Japan (Shinonaga & Kano, 1971); China (Fan, 1965); Oriental (Emden, 1965); Thailand (Tumrasvin & Shinonaga, 1977); Philippines (Magpayo, Shinonaga & Kano, 1987); Afrotropical (Emden, 1939, Zielke, 1971c); Australian (Pont, 1973); Micronesia (Snyder, 1965); immatures and biology (Skidmore, 1965); bibliography (West & Peters, 1973); and ecology, classification and biotic associations (Greenberg, 1971). Most of the above need to be updated by reference to the various regional taxonomic catalogues: Nearctic (Pont (in press)); Neotropical (Pont, 1972); Palaearctic (Pont, 1986a); Afrotropical (Pont, 1980); Oriental (Pont, 1977b); Australasian/ Oceanian (Pont, 1989).



## Workers: Their collections and publications

The preparation of a work such as this requires knowledge of the workers and their collections and publications. Some of this knowledge can be derived from the publications themselves, but most of it is scattered elsewhere. To aid future workers, we have identified our sources of ancillary information below and in the references cited. The standard entomological bibliographic sources (Hagen, 1862-63; Horn & Schenkling, 1928-9 (corrections, Gaedike & Smetana, 1978 & 1984); Derksen & Scheiding, 1963-75) were used along with other special sources such as Stafleu & Cowan (1979-88), which was extremely useful for dating and verifying various editions of the earlier general natural history works. Two other old bibliographies were useful for identifying cryptic citations in the earlier literature (Cobres, 1782 & Dryander, 1796-1800). The collection information in Horn and Kahle (1935-37) and its supplements (Sachtleben, 1961, Horn *et al.*, 1990) is not repeated below.

### **Bigot, Jacques Marie Frangile (1818–1893)**

Gilbert (1977: 33, 13 citations), Brauer (1899, collection notes); Maa (1963, notes on labels); Ackland & Taylor (1972, notes on types at Oxford); Crosskey (1971, collection, label & type notes), Thompson (1989, collection, label & type notes).

### **Bouché, Peter Friedrich (1784–1856)**

Gilbert (1977: 43, 1 citation). Remnants of his Diptera were acquired by DEI in 1937; Sachtleben (1944, biographical sketch).

### **Curtis, John (1791–1862)**

Gilbert (1977: 81, 9 citations), Blackwelder (1947, on British Entomology); Neboiss (1963, notes on Curtis Collection, now in Melbourne (MVM)).

### **De Geer, Carl (1720–1778)**

Gilbert (1977: 88, 11 citations); Clausen (1977: 514, data on curation, style of pins, and labels used by De Geer); Gurney (1956, last word on proper form of De Geer's surname); Persson, Pont & Michelsen (1984, notes on collection and nomenclature). De Geer's work was abstracted by Retzius (1783) following the Linnaean system.

De Geer began his work before Linnaeus formally elaborated his system of binominal nomenclature and consistently applied it to animals. Hence,

the names in the early volumes of the *Mémoires* are not binominal. Traditionally, however, workers have accepted the names in volume 3 onward as conforming to the Linnaean system (Persson et al. 1984: 91). Unfortunately, under the current rules of nomenclature (ICZN, 1985), De Geer does not consistently follow the principle of binominal nomenclature even in the subsequent volumes. De Geer used binary nomenclature, a single word for the genus, and, while he usually used one word for the species, sometimes a two-word phrase was used for the species name. In the genus *Musca*, he used the adjectives *major* and *minor* to distinguish between large and small varieties (*Musca minor domestica* and *M. domestica major*; *M. major larvarum* & *M. minor larvarum*; *M. vivipara major* & *M. vivipara minor*), but sometimes color and habitat descriptors were used (*Tipula nigra aquatica*) or habitat and structural descriptors (*T. Agarici seticornis*) or structural and pattern descriptors (*T. clavata maculata*). These two-word combinations are phrases, not separate words that together refer to a single entity as permitted under the rules (ICZN, Art. 11(h)v). However, for pragmatic reasons, we have followed tradition and accepted all two-word names as binominal and available, but have rejected as polynominal and unavailable all names of three or more words.

**de Villers, Charles Joseph (1724–1810)**

Gilbert (1977: 396, 3 citations). Collections stated to belong to "Tissier jr. (Lyon)" with duplicates in "Städt. Mus., Lyon" (Horn & Kahle 1936: 289), but we have been unable to verify this. No de Villers material is known to exist in the Musée Guimet d'Histoire Naturelle, Lyon, but, on the other hand, nothing is known of the collection's fate nor is it known definitely to have been destroyed (J. Clary, *in litt.*, 30 Oct. 90).

**Doleschall, Carl Ludwig (1827–1859)**

Gilbert (1977, 3 citations); some material collected by Doleschall is present in NMW and may represent syntypes of some of his species (Osten Sacken, 1881a).

**Donovan, Edward (1768–1837)**

Gilbert (1977, 2 citations); Weiss (1927, fate of collection). Horn & Kahle (1935: 60) state that Donovan's collection was auctioned by J. C. Stevens in 1818. Details about the auction can be found in Chalmers-Hunt (1976a: 5, 1976b: 77), and a copy of the sale catalog exists in BMNH where some of the specimens ended up, including material used for Donovan (1805). Other Donovan material ended up in the Macleay Museum, Sydney (Horning, 1988).

**Drury, Dru (1725–1803)**

Gilbert (1977, 9 citations); Weiss (1927, notes on fate of collection). Some Drury material was acquired by Alexander Macleay and is now in Sydney (Horning, 1988). Many specimens were purchased by F. W. Hope and should still be in UMO (Hope *marginalia*). Hayek (1985) provided additional information on the fate of Drury specimens.

**Fabricius, Johann Christian (1745–1808)**

Gilbert (1977, 21 citations); Zimsen (1964, type material); Tuxen (1967a & b, biography & bibliography); Michelsen (1979a, muscoid spp.); Pape (1986, sarcophagid spp.); Evenhuis (1988, Labillardière material).

**Fallén, Carl Fredrik (1764–1830)**

Gilbert [no data]; Ander (1952, collection notes); Persson 1964 (notes on types); Michelsen (1983, anthomyiid spp.); Pont (1984, muscid spp.); Pape 1986 (sarcophagid spp.).

**Forster, Johann Reinhold (1729–1798)**

Gilbert (1977, 5 citations), Day & Fitton (1977, type material).

**Geoffroy, Etienne Louis (1727–1810)**

Gilbert (1977: 135, 3 citations). His principal work (1762) was ruled as non-binominal by ICZN (1954). The Diptera genus-group names were subsequently validated by ICZN (1957), and his species are available from their appearance in Fourcroy (1785). His collections were stated to be deposited in "Mus. Autun" "via de Laplanche" (Horn & Kahle 1935: 88), but several inquiries to the Musée d'Histoire Naturelle, Autun, have remained unanswered.

**Gimmerthal, Benjamin August (1779–1848)**

Gilbert (1977: 140, 1 citation). Types in Riga.

**Gravenhorst, Jean Louis Charles (1777–1857)**

Gilbert (1977, 2 citations). His collection was deposited at Wroclaw, but the Diptera types are now lost among the general material or destroyed (M. Kak, *in litt.*; also Kinel, 1957).

**Gmelin, Johann Friedrich (1748–1804)**

Gilbert (1977: 141, 2 citations); Kabat & Petit (1988, editions of 1790); Spilman (1967, nomenclatural importance of 1790 work); Vane-Wright (1975, definitive treatment of 1790 work and collections). Insect types from the Leskean Museum have been identified in NMI, but none of the Diptera survive (J. P. O'Connor, *in litt.*, 28 Sept 90).

**Haliday, Alexander Henry (1807–1870)**

Gilbert (1977: 156, 9 citations); Nash & Chandler (1978, general notes on material & types).

**Harris, Moses (1730-between 1787–1789)**

Gilbert (1977: 160, 2 citations); Goffe (1946, 1951, syrphid names, notes on works); Lisney (1960, biographic and bibliographic notes); Weiss (1926, biography); Hagen (1861, bibliographic note); Pont & Michelsen (1982, muscoid names, general notes).

**Harris, Thaddeus William (1795–1856)**

Gilbert (1977, 21 citations); Johnson (1925, notes on collection); Wilkinson (1980, notes on papers). The Harris collection is now in MCZ, where it is kept as a separate collection along with Harris' notebooks.

**Linnaeus, Carl von (1707–1778)**

Gilbert (1977: 227, 41 citations); Jackson (1890, history of collection); Bryk (1949, types in De Geer Collection); Lindroth (1957, work, collections); Day & Fitton (1978, re-curation of collection); Pont (1981, muscoid spp.); Thompson *et al.* (1982, syrphid spp.); Mikkola (1983, Linnaean insect pins); White (1987, tephritid spp.).

**Macquart, Justin Pierre Marie (1778–1855)**

Gilbert (1977: 241, 6 citations); Macquart (1850, list of material in Lille); Brauer (1899, collection notes); Maa (1963, notes on labels); Pont (1967, Australian muscid spp.); Ackland & Taylor (1972, notes on types at Oxford); Crosskey (1971, collection, labels & type notes); Lopes (1975, type notes); Thompson (1989, collection, label & type notes).

**Meigen, Johann Wilhelm (1764–1845)**

Gilbert (1977: 251, 11 citations); Steyskal (1974, translation of biographic materials); Herting (1972, tachinid types); Pont (1986b, extensive notes on Meigen's collection and collectors); Morge (1975-76, Meigen's color plates).

**Müller, Otto Friedrich (1730–1784)**

Gilbert (1977: 268, 4 citations); Henriksen (1922, 1940; biographic & bibliographic notes); Anker (1950, on *Zoologia Danica*). According to Hagen (1844: 131; also Horn & Kahle, 1936: 184), the collection of Müller was destroyed when the English fleet under Admiral Nelson bombarded Copenhagen in 1801. However, Anker in her review of Müller makes no mention of this destruction, merely stating that "posthumous scientific belongings were scattered by being sold at a public auction" (Anker, 1950: 86).



**Panzer, Georg Wolfgang Franz (1755–1829)**

Gilbert (1977: 287, 7 citations); Saunders (1888, index). Panzer's collection was given to ZMHU and the material was integrated into the general collection. We do not know of any modern worker who has been able to identify authentic Panzer type material in ZMHU. Some of the species illustrated in his *Favnae insectorvm germanicae* came from other collections and, hence, may be found in other places.

**Poda von Neuhaus, Nicolaus (1723–1798)**

Gilbert (1977: 300, 1 citation); Schiner (1856, critical revision of Diptera species in 1763 work). Nothing is known of the collections of Poda. We wrote to the Steiermärkisches Landesmuseum, Graz, and were informed that despite extensive searches for Poda's collection no information about its existence had ever been discovered and the collection is assumed to have been destroyed (J. Madler *in litt.*, 9 July 92)

**Preyßler, Johann Daniel Edvard (17??–post 1838)**

Gilbert [no data]. Rozkosny et al. (1982, notes on Diptera).

**Robineau-Desvoidy, André Jean Baptiste (1799–1857)**

Gilbert (1977: 319, 7 citations); Royer (1931, notes on collection); Sabrosky (1974, defence of). What remains of the Robineau-Desvoidy collection is now at MNHNP, but most of it is known to have been destroyed. A check has been made in the remnants of his collection for the species enumerated in this paper, but nothing survives.

**Rondani, Camillo (1807–1879)**

Gilbert (1977: 322, 16 citations); Guigla (1957, types in Genoa); Sabrosky (1961, bibliographic notes); Hennig (1961, muscid types); Pape (1988, notes on collection & sarcophagid types).

**Roser, Karl Ludwig Friedrich von (1787–1861)**

Gilbert (1977: 324, 1 citation). Roser material is now in the museum at Ludwigsburg (SMN).

**Rossi, Pietro (1738?–1804)**

Gilbert (1977: 324, 3 citations); Baccetti (1962, biographic & bibliographic notes). Horn and Kahle (1936: 231) stated that the Rossi collection passed to Frédéric de Sanvitale of Parma and part thereof (or all) later passed via J. Hellwig to ZMHU in Berlin. Baccetti (1962: 20), however, noted that no Rossi types have been found in Berlin.

**Schrank, Franz von Paula (1747–1835)**

Gilbert (1977: 342, 2 citations). See Gistel, 1837b.

**Scopoli, Johann Anton (1723–1788)**

Gilbert (1977: 344, 7 citations); Higgins (1963, fate of collection and notes on plates for 1763 work); Schiner (1856, critical revision of Diptera species in 1763 work); Voss (1881, detailed information on life and collections); Guglia (1972 in Scopoli 1972, biography).

**Thomson, Carl Gustaf (1824–1899)**

Gilbert (1977: 381, 8 citations); Persson (1964, general notes on types; 1972, notes on “Eugenies Resa” material).

**Thunberg, Carl Peter (1743–1828)**

Gilbert (1977: 382, 8 citations); Karsholt & Schmidt-Nielsen (1986, collection notes).

**Walker, Francis (1809–1874)**

Gilbert (1977: 400, 14 citations); Smith & Taylor (1964, types at Oxford); Pont (1966, type notes); Lopes (1975, type notes); Graham (1979, biography); Walker (1984, material in Melbourne); Thompson (1989, collection, label & type notes).

**Wiedemann, Christian Rudolph Wilhelm (1770–1840)**

Gilbert (1977: 414, 3 citations); Zimsen (1954, types in Copenhagen); Thompson (1989, collection, label & type notes).

**Zetterstedt, Johann Wilhelm (1785–1874)**

Gilbert (1977: 425, 5 citations); Ander (1952, collection notes); Persson (1964, notes on types); Michelsen (1985, anthomyiid spp.); Pape (1986, sarcophagid spp.).

## Systematic Database of *Musca* Names

### Scope

All names proposed in combination with the genus-group name *Musca* or now included in the genus *Musca* are reviewed here. This definition is broad because fly maggots were described as ascarid worms and fossil cockroaches were mistaken for flies! So some names proposed in combination with *Ascaris* (Phylum Nematoda) now are to be found as synonyms of *Musca domestica* and some names proposed in combination with *Musca* are now found assigned to species in the order Blattodea. A few other names associated with these *Musca* names have been included. When a name was originally proposed in another genus but subsequently placed in *Musca* and

there renamed because of homonymy, the original name is included despite its current placement. For example, Gmelin (1790: 2865) transferred *Rhagio maculatus* Fabricius to *Musca* and renamed it as *Musca adspersus* because the Fabrician name was a junior secondary homonym of *Musca maculata* Scopoli (1763: 326). *Rhagio maculatus* is included so that information on its type-locality and type-depository is available. Likewise, data for all valid senior synonyms of names proposed in *Musca* are included. A number of subsequent usages, usually representing new combinations, are also included because they were listed in Sherborn's *Index Animalium*. In Sherborn, there is usually no indication of the status of included names. We have thus included all names listed for *Musca* in Sherborn and have identified their status. These subsequent usages of *Musca* names can be confusing to modern workers. For example, Schumann (1986: 18) and Kurahashi (1989: 703) treated Scopoli's misidentification of *Musca carnaria* Linnaeus (a sarcophagid, but Scopoli applied the name to a calliphorid) as an available name. Likewise, Hennig (1963: 857) rejected the name *Musca laeta* Fallén because Sherborn (1922: 3355) listed *Musca laeta* Turton but did not indicate that the Turton name was only a subsequent use of *Syrphus laetus* Fabricius.

Altogether, the database includes 2,077 names, of which 1,709 are available, 904 are valid, 305 are junior homonyms, and 368 are unavailable. A number of new names (3), new combinations (64) and new synonyms (57) are given.

## Format

The general format of the entries in the alphabetical list is given below. Square brackets here denote information only included when relevant. Valid names are given in **BOLD** face type; available, but invalid names are given in *italics*; and unavailable names are in Roman.

**name** Author, publication year: page of indication and/or description (Original genus). Type locality or status of name. Kind of type Sex of type Depository of type. Family, current valid name including author to the extent known. [Comments and further information.]

Type locality data are given in full for all available names except replacement names and emendations. These data were taken from the original literature unless more detailed data were available from type specimens or from subsequent studies. Locality names have been corrected to conform to current usage and political boundaries where possible. When this is not possible, the original data are given in double quotes ("..."). For replacement names and emendations, the status of the name is given, such as "emend. [=emendation of] of *x-us* Author" or "n. n. [=new name for] *x-us* Author".

For *nomina nuda*, locality data are given, if known. For all other unavailable names, the status of the name is given, such as "incosp. [=incorrect original spelling of] *x-us* Author," or "missp. [=misspelling of] *x-us* Author." Data are also provided on the types of names or authentic material (of *nomina nuda*) where such are available. Two indexes are provided: One lists the names by biogeographical realm and the other by the current taxonomical position. The traditional division of the world into biotic regions is used and our definition of those regions conforms to the ones used by the various regional Diptera catalogs. The taxonomic index lists the names by family, genus, and species to which they currently belong. In both indexes, the index term is first, separated by a colon and followed by the list of the names that are associated with the term.

### Cut-off date

All "*Musca*" names found in the literature before 1 January 1992 have been included in the database.

### Lists of abbreviations used

For the status of a name, the following abbreviations are used:

N. n. = New name proposed for ...  
 Incosp. = Incorrect original spelling of ...  
 Missp. = [Subsequent] misspelling of ...  
 Emend. = Emendation of ...

For the kind of type specimen(s), the following abbreviations are used:

A = adult,  
 ♂ ♀ = male(s) and female(s),  
 ♀ = female,  
 L = larva,  
 ♂ = male,  
 X = fossil

For the kind of type, the following abbreviations are used:

HT = holotype,  
 LT = lectotype,  
 NT = neotype,  
 ST = syntypes, and  
 T = type, status unknown or typical specimen(s).

*Holotype* is used when one specimen was designated as the type or holotype or equivalent term in the original description or when the original description



was clearly based on a unique specimen (see Article 73a). Under the *International Code of Zoological Nomenclature*, a holotype can only be designated in the original description. However, many modern authors have retrospectively designated "holotypes," usually because only one specimen remains extant. When the original description does not indicate the number of specimens upon which the name was based and this can not be determined from the description itself, then these subsequent "holotype" designations are lectotype designations (Article 74b). For all published declarations of "holotypes" for names which did not have valid holotype designations, we have included the citation to the "holotype" designation.

*Lectotype* is used when one of the syntypes has been subsequently designated as the type in accordance with article 74 of the *International Code of Zoological Nomenclature*. A citation is given to the source of the designation.

*Neotype* is used when a new specimen, not previously a type, has been designated in accordance with article 75 of *International Code of Zoological Nomenclature*. A citation is given to the source of the designation.

*Syntypes* is used when the original description clearly applies to multiple specimens or multiple specimens were listed as examined AND when no lectotype has been designated.

*Type* is used when the status of the type specimens is unknown. "T" is also used in the sense of typical with *nomina nuda* to indicate the presence of voucher specimens associated with the unavailable name.

For the depositories of type specimens, museum acronyms as used by Griffiths for the *Flies of the Nearctic Region* series (1980) are given. These and the other abbreviations used are as follows.

|         |   |
|---------|---|
| AMNH    | American Museum of Natural History, New York  |
| AMS     | Australian Museum, Sydney   |
| ANSP    | Academy of Natural Sciences, Philadelphia   |
| ASL     | Academy of Sciences, St. Petersburg   |
| Auction | Types sold at auction, current location unknown.  |
| Author  | Collection of the author of the name. See above under the section on workers for further information. |
| BMNH    | The Natural History Museum, [formerly British Museum (Natural History)], London                       |
| BMNH B  | Banks Collection, now deposited in BMNH   |
| CAS     | California Academy of Sciences, San Francisco   |
| CNC     | Canadian National Collection, Biosystematics Research Centre, Agriculture Canada, Ottawa              |

|         |   |
|---------|---|
| CRIK    | Central Research Institute, Kasauli, India (Awati's material is probably lost)  |
| DEI     | Deutsches Entomologisches Institut, Eberswalde  |
| DESTROY | Type known to be destroyed. The source of this information is either given in the comments for the entry or under the author in the section on workers. |
| HIPHA   | High Institute of Public Health, Alexandria   |
| IMZ     | Istituto e Museo di Zoologia, University of Turin, Italy  |
| IRSNB   | Institut Royal de Sciences Naturelles de Belgique, Brussels   |
| ISS     | Instituto Superiore de Sanita, Rome   |
| ITZA    | Instituut voor Taxonomische Zoölogie, Amsterdam   |
| LMNR    | Latvian Museum of Nature, Riga  |
| Lost    | Type not found in appropriate collection, presumed to be lost   |
| LSL     | Linnaean Society, London  |
| MCSNG   | Museo Civico di Storia Naturale, Genoa  |
| MCSNM   | Museo Civico di Storia Naturale, Milan  |
| MCZ     | Museum of Comparative Zoology, Harvard University, Cambridge  |
| MHNL    | Musée d'Histoire Naturelle, Lille   |
| MNHNP   | Muséum National d'Histoire Naturelle, Paris   |
| MRAC    | Musée Royal de l'Afrique Centrale, Tervuren   |
| MVM     | Museum of Victoria, Abbotsford, Melbourne   |
| NCIP    | National Collection of Insects, Pretoria  |
| NMI     | National Museum of Ireland, Dublin  |
| NMP     | Natal Museum, Pietermaritzburg  |
| NMW     | Naturhistorisches Museum, Vienna  |
| NRS     | Naturhistoriska Riksmuseet, Stockholm   |
| NSMT    | National Science Museum, Tokyo  |
| QMB     | Queensland Museum, Brisbane   |
| RNH     | Nationaal Natuurhistorisch Museum, Leiden (formerly Rijksmuseum van Natuurlijke Historie)   |
| SAIMR   | South African Institute of Medical Research, Johannesburg   |
| SAMCT   | South African Museum, Cape Town   |
| SIE     | Shanghai Institute of Entomology, Shanghai  |
| SMF     | Senckenbergisches Museum für Naturkunde, Frankfurt-am-Main  |
| SMN     | Staatliches Museum für Naturkunde, Ludwigsburg  |
| UMO     | University Museum, Oxford [see Smith (1986) for details]  |
| Unknown | Locality of type material unknown. More specific information may be found under the author in the section on workers.                                   |
| USB     | Universita degli Studi di Bologna, Bologna  |
| USNM    | National Museum of Natural History, Smithsonian Institution [formerly United States National Museum], Washington  |

|        |   |
|--------|---|
| UZMC   | Universitetets Zoologiske Museum, Copenhagen  |
| UZMC F | Fabrician Collection, now deposited at UZMC   |
| Yeats  | Yeats Collections, remains in University Museum, Glasgow                                    |
| ZIL    | Zoological Institute, University of Lund, Lund  |
| ZIU    | Zoological Institute, University of Uppsala, Uppsala  |
| ZMHU   | Institut für Spezielle Zoologie und Zoologisches Museum der<br>Humboldt Universität, Berlin |
| ZSI    | Zoological Survey of India, Calcutta  |
| ZSZMH  | Zoologisches Staatsinstitut und Zoologisches Museum,<br>Hamburg                             |

### Status of Names

The treatment of names follows the 3rd edition of the International Code of Zoological Nomenclature (hereafter, simply the CODE). Today, the status of a name is usually clearly indicated by the author with an explicit statement, such as “new species,” “new name,” etc. However, in the early literature, the status of names is frequently not so clearly indicated. The problem of “new” names in such comprehensive works as those of Gmelin (1790) and Turton (1801) is an example (see below) of the difficulties involved in determining the true status of names. When there is no explicit statement of status, three factors must be considered to determine the status: 1) Name - Is the spelling of the name identical or not to another name? 2) Characterization - Is the characterization given the same or different from that of other taxa? and 3) Attribution - Is the name attributed to another source? Names that are the same and are associated with the “same” characterization are considered to be the same, the later one being a subsequent usage of the earlier one. If a name is attributed to another worker and is identical in spelling to a name of the other worker, then it is a subsequent usage of that name and is not available unless it appears before the attributed usage. Even if the author deliberately mis-applies the name, the name is not available and is only a subsequent mis-identification unless the mis-application is being used as the type-species of a new genus (Art. 11 h(i)). If a name is attributed to another worker but differs in spelling from the name of the other worker, then the name may be an emendation, replacement, or a misspelling. Emendations, replacement names, and misspellings are separated only by the intent of the worker. Such intent is not always clearly documented. For emendations, the CODE defines intent as citation of both an original spelling and an emended spelling with the use of the emended spelling (Art. 33b(i)). The example given in the CODE of treatment of names in a similar way is not precisely true. For a new name, the CODE also implies a deliberate statement of replacement. Thus, incorrect subsequent spellings are defined by exclusion, that is, anything which is not an emendation nor a replacement name is a

subsequent incorrect spelling. Names that differ from prior ones in spelling and have no attribution are considered to be new proposals, especially if accompanied by a characterisation that is distinct. Our interpretation of names is summarized in the following table.

Some names in Gmelin (1790) and Turton (1801) present special problems. As noted above, names that differ from their original spelling may be considered as new names, emendations, or incorrect subsequent spellings. The first two possibilities are available names, but the last is not. A new name is a name expressly proposed as a replacement for an earlier name; an emendation is any demonstrably intentional change in the original spelling of a name; and incorrect subsequent spelling is anything else. The spellings used for some names in Gmelin and Turton are different from the original ones. The intent of Gmelin and Turton in making changes is not clear from their work. Gmelin gave references to the original spelling of all names, but did not give the original spelling nor an explanation for his deviation from it. Turton did not give the authority or the original source for names taken from Fabricius (1794) as he stated in his introduction that he followed “the last edition of the system of Fabricius” and that he omitted the numerous synonyms and references in Fabricius to reduce the bulk of his work. For names not in Fabricius, Turton did give a reference to the original source. In most cases, Turton did not give the original spelling and in no case did he give an explanation for his changes. The lack of an indication of intent would suggest that the changes in Gmelin and Turton should be considered simply as mistakes (incorrect subsequent spellings). And this is their proper status under the current CODE (ICZN, 1985, Art. 12(b)3 defines “indication” as “the proposal of a new replacement name (*nomen novum*) for an available name”). However, the requirement of an indication of intent for names published before 1930 was not part of earlier CODEs. In the prior edition, names published before 1930 need only be accompanied by an indication such as “the substitution of a new name for a previously established name” (ICZN 1964, Art. 16(a)(iii)). In Gmelin and Turton, it is clear that a new name (that is, one of a different spelling) has been substituted for an old name. Thus, while the purpose for the substitution (or lack of purpose, that is, an erroneous misspelling<sup>6</sup>), whether to replace or emend, was not implicitly stated, the result is indisputable. Most workers have accepted at least some of the substitutions as new replacement names. So, to reject all the substitu-

<sup>6</sup> We do recognize that some of the minor changes were probably unintentional mistakes. For example, a type setter may have easily mistaken *meditabunda* in Gmelin's handwriting as *meditabunda* which is what was set in type, and Gmelin may have overlooked the mistake in the proof stage. However, the problem of retrospectively deciding what was a mistake and what was an intentional change still remains!



tions in these works as merely incorrect subsequent spellings as the current CODE requires would be to upset current usage. We therefore consider all changed names to be available (as was the case under previous CODEs), but have arbitrarily considered minor changes, such as *linzensis* Gmelin for *lincensis* Schrank, to be emendations and major changes, such as *australis* Gmelin for *testacea* Fabricius, to be new names. The essential point is not whether the name is an emendation or a replacement name, but that the name (= change) is available and, although synonymous, must be considered for the purposes of homonymy.

**Comparison table for determination of the status of names which are not clearly designated as new.**

| Class | Names     | Characters | Attribution           | Kind  | Status                    |
|-------|-----------|------------|-----------------------|---|---------------------------|
| 1     | Same      | Same       | Absent                | Subsequent Usage  | Unavailable               |
| 2     |           |            | Present               | Subsequent Usage  | Unavailable               |
| 3     |           | Different  | Present               | Misidentification<br>EXCEPT **                          | Unavailable               |
| 4     |           |            | Absent                | Homonym   | Available                 |
| 5     | Different | Same       | Absent                | Synonym   | Available                 |
| 6     |           |            | Present               | Emendation,<br>Misspelling &<br>Replacement name<br>*** | Available/<br>Unavailable |
| 7     |           | Different  | Absent                | Valid Name  | Available                 |
| 8     |           |            | Present               | Misidentification<br>& Misspelling                      | Unavailable               |
| 9     |           |            | Present,<br>but ... * | Synonym or<br>Valid Name                                | Available                 |

NAME: Same name means identical spelling except that for family group names where it should be taken to mean same type genus and the variant spellings deemed identical in art. 58.

CHARACTER is a set of attributes that differ among taxa. Same characters means objectively having the same type; subjectively belonging to the same taxon.

ATTRIBUTION means some indication of prior use of the name. Minimally this is merely the citation of an authority and maximally this is a full citation to a publication. \*Case 9 is the inclusion of earlier names (concepts) in a synonymy for a new proposal, etc. Depending on the status of the earlier names included, the new proposal may be a synonym or a valid name.

KIND: Names are either valid, homonyms, junior synonyms, emendations or the subsequent use of previously published names. Those subsequent usages can be either misspellings misapplications (misidentifications) or correct spellings and applications. \*\*Misidentifications are unavailable except when the misidentification is deliberately used for the type species of a new genus. \*\*\*Emendations, misspellings, and replacement names are separated only by the intent of the worker. Such intent is not always clearly documented. For emendation, the Code defines intent as "when in the work itself, or in an author's (or publisher's) corrigenda, the original and the changed spelling are cited and the latter is adopted in the place of the former ..." (art. 33(b)i). For replacement names, the Code requires that the original and the replacement name be given. Hence, misspellings (incorrect subsequent spellings) are only defined by exclusion, that is, anything which is not an emendation or a replacement name is a subsequent incorrect spelling.

STATUS: Names are either available or unavailable for scientific nomenclature. The problems of class 6 are discussed in the text.

Alphabetical listing of *Musca* Names

- abbreviata** Gravenhorst, 1807: 380 (*Musca*). Unknown, probably Germany. T A Lost. Scathophagidae.
- abdominalis** Turton, 1801: 650 (*Musca*). Subsequent Usage of *Syrphus abdominalis* Fabricius. Syrphidae, *Psarus coalescens* Geoffroy.
- abdominalis** Fabricius, 1805: 294 (*Musca*). East Indies. HT ♀ UZMC. Calliphoridae, *Thoracites abdominalis* Fabricius. See Townsend 1931c: 372.
- ablectus** Harris, 1776: 41, pl. 10, fig. 2 (*Musca*). England. T A Unknown. Syrphidae.
- abrupta** Gmelin, 1790: 2860 (*Musca*). Europe. T A NMI.
- accincta** Wiedemann, 1830: 407 (*Musca*). Unknown. T ♂ NMW. Calliphoridae, *Phormia regina* Meigen.
- acromion** Wiedemann, 1824: 47 (*Musca*). South America. T A UZMC. Tachinidae, *Cholomyia acromion* Wiedemann.
- acuminata** Gmelin, 1790: 2867 (*Musca*). Europe. T A NMI. Rhagionidae?
- adiaphora** Mayer, 1779: 184 (*Musca*). Czechoslovakia, Bohemia, Schuttenhofen Region. T A UNKNOWN.
- adpersus** Gmelin, 1790: 2865 (*Musca*). N. n. *Rhagio maculatus* Fabricius.
- adumbrata** Wiedemann, 1824: 48 (*Musca*). Java. T ♀ UZMC. Muscidae, *Graphomya adumbrata* Wiedemann.
- adunata** Geoffroy, 1785: 488 (*Musca*). France, Paris. T A Author. Syrphidae, *Ceriana* sp.
- aenea** Scopoli, 1763: 347 (*Musca*). Carniola. T A DESTROY. Syrphidae, *Cheilosia* sp.
- aenea** Gmelin, 1790: 2879 (*Musca*). Europe. T A NMI. Syrphidae. Preocc. Scopoli 1763.
- aenea** Fabricius, 1794: 335 (*Musca*). India. T A UZMC. Otitidae, *Physiphora clausa* Macquart. Preocc. Scopoli 1763. N. Comb.
- aenea** Zetterstedt, 1838: 656 (*Musca*). [Sweden, Lapland]. ST A NRS. Muscidae, *Pyrellia rapax* Harris. Preocc. Scopoli 1763.
- aequinotialis** Linnaeus, 1758a: 598 (*Musca*). South America. T A NRS. Stratiomyidae.
- aerea** Fallén, 1825: 76 (*Musca*). Sweden, Skåne. LT ♂ NRS. Muscidae, *Spilogona aerea* Fallén. Lectotype designated by Pont 1984: 279.
- aestiva** Müller, 1764: 86 (*Musca*). Denmark, Sjaelland, Frederiksdal. T A DESTROY.
- aestivationis** Linnaeus, 1761: 454 (*Musca*). Sweden, Uppsala. T A LSL.
- aestuans** Linnaeus, 1758a: 600 (*Musca*). Europe. T A LSL.
- aethiops** Gmelin, 1790: 2831 (*Musca*). Subsequent Usage of *Bibio aethiops* Fabricius. Bombyliidae, *Anthrax aethiops* Fabricius.
- aethiops** Stein, 1913: 467 (*Musca*). Tanzania, Moschi and Kilimandjaro. ST A ZMHU. Muscidae, *Musca aethiops* Stein.
- affinis** Turton, 1801: 639 (*Musca*). Subsequent Usage of *Syrphus affinis* Fabricius. Tachinidae, *Allophora hemiptera* Fabricius.
- affinis** Lamarck, 1816: 363 (*Musca*). Subsequent Usage of *Syrphus affinis* Fabricius. Tachinidae, *Allophora hemiptera* Fabricius.



- affinis** Fallén, 1817: 237 (*Musca*). Sweden, Skåne. LT ♂ NRS. Sarcophagidae, *Agria affinis* Fallén. Lectotype designated by Pape 1986: 303. N. Status  
Pape (1986: 303) used *punctata* Robineau-Desvoidy as he believed that *affinis* Fallén was preoccupied by “*Musca affinis*” Turton and “*Musca affinis*” Lamarck, both names being merely subsequent usage of *Syrphus affinis* Fabricius.
- affinis** Meigen, 1838: 304 (*Musca*). Subsequent Usage of *Calliphora affinis* Macquart. Calliphoridae, *Calliphora vomitoria* Linnaeus.
- affixa** Walker, 1856a: 27 (*Musca*). Malaysia, Mt. Ophir. T ♂ BMNH. Muscidae, *Morellia affixa* Walker.
- afra** Paterson, 1956: 160, fig. 3 (*Musca*). Tanzania, Torina. HT ♂ SMN. Muscidae, *Musca afra* Paterson.
- africa** Wiedemann, 1824: 49 (*Musca*). South Africa, Cape of Good Hope. T ♀ UZMC. Sarcophagidae.
- africana** Bezzi, 1892: 190 (*Synamphoneura*). Somalia, Obbia. T ♀ MCSNM. Muscidae, *Musca lucidula* Loew.
- agilis** Harris, 1780: 86, pl. 25, fig. 19 (*Musca*). England. T A Unknown. Tachinidae.
- agilis** Rossi, 1790: 311 (*Musca*). Italy, Tuscany, Firenze & Pisa. T A ZMHU. Preocc. Harris 1780.
- agilis** Meigen, 1826: 70 (*Musca*). Germany. T A MNHNP. Calliphoridae, *Bellardia vulgaris* Robineau-Desvoidy. Preocc. Harris 1780. See Rognes 1991a: 44 about types. N. Comb.
- agilitas** Harris, 1780: 108, pl. 32, fig. 45 (*Musca*). England. T A Unknown. Syrphidae, *Platycheirus cyaneus* Müller.
- agromyzina** Fallén, 1825: 74 (*Musca*). Sweden, Skåne, near Äsperöd. LT ♀ NRS. Muscidae, *Coenosia agromyzina* Fallén. Lectotype designated by Pont 1984: 280.
- agrorum** Gmelin, 1790: 2869 (*Musca*). Subsequent Usage of *Syrphus agrorum* Fabricius. Syrphidae, *Palpada agrorum* Fabricius.
- alata** Gmelin, 1790: 2842 (*Musca*). Missp. *elata* Fabricius. Sciomyzidae, *Tetanocera elata* Fabricius.
- alba** Malloch, 1929a: 265 (*Byomya*). Sudan, Khartoum. HT ♂ BMNH. Muscidae, *Musca sorbens* Wiedemann.
- albiceps** Wiedemann, 1819a: 38 (*Musca*). South Africa, Cape of Good Hope. HT ♀ NMW. Calliphoridae, *Chrysomya albiceps* Wiedemann. See Townsend 1931c: 374.
- albicincta** Rossi, 1794: 69 (*Musca*). Italy. T A ZMHU. Scenopinidae, *Scenopinus albicinctus* Rossi.
- albicincta** Fallén, 1825: 73 (*Musca*). Sweden, Skåne. LT ♂ NRS. Anthomyiidae, *Calythea nigricans* Robineau-Desvoidy. Preocc. Rossi 1794. Lectotype designated by Michelsen, 1983: 110.
- albifrons** Linnaeus, 1761: 453 (*Musca*). Sweden. T A LSL. Tachinidae. 1 sp. in LSL (Dear MS).
- albimana** Gmelin, 1790: 2876 (*Musca*). Subsequent Usage of *Syrphus albimanus* Fabricius. Syrphidae, *Platycheirus cyaneus* Müller.
- albina** Wiedemann, 1830: 415 (*Musca*). East Indies. ST ♀ UZMC NMW. Muscidae, *Musca albina* Wiedemann.
- albipennis** Meigen, 1826: 58 (*Musca*). Germany, probably Stolberg. HT ♀ MNHNP. Muscidae, *Musca tempestiva* Fallén. See Pont 1986b: 211.

- albipes* de Villers, 1789a: 426 (*Musca*). Subsequent Usage of *Stratiomys albipes* Geoffroy. Stratiomyidae, *Nemotelus pantherinus* Linnaeus. Synonymy from de Villers.
- albiseta* Scopoli, 1763: 341 (*Musca*). Carniola. T A DESTROY. Sciomyzidae, *Ilione albiseta* Scopoli.
- albolineata* Fallén, 1823: 54 (*Musca*). Sweden, Skåne, Äsperöd. LT ♂ NRS. Muscidae, *Polietes domitor* Harris. Lectotype designated by Pont 1984: 280.
- albo maculata* Macquart, 1843: 308 (*Musca*). Mauritius. HT ♀ MNHNP. Muscidae, *Musca xanthomelaena* Wiedemann. See Pont & Matile, 1976: 743.
- albomicans* Schummel, 1832: 74 (*Musca*). *Nomen nudum*.
- albula* Fallén, 1825: 74 (*Musca*). Sweden, Västergötland. LT ♂ NRS. Anthomyiidae, *Delia albula* Fallén. Lectotype designated by Michelsen 1983: 110.
- alceae* Preyßler, 1791: 129, pl. 4, fig. 20 (*Musca*). Czechoslovakia, Bohemia. T A DESTROY. Otitidae, *Physiphora alceae* Preyßler. See Rozkosny, Chvála & Pont 1982: 353.
- aldrichi* Townsend, 1931d: 468 (*Willistonina*). Brazil. HT ♂ NMW. Tachinidae, *Belvosia aldrichi* Townsend. As n. n. for “*Musca esuriens* BB. Ald. (nec Fab., nec Wied.)”
- alevo* Harris, 1780: index (*Musca*). Incosp. *allevo* Harris. Fanniidae, *Fannia scalaris* Fabricius.
- allevo* Harris, 1780: 147, pl. 43, fig. 67 (*Musca*). England. T A Unknown. Fanniidae, *Fannia scalaris* Fabricius. Name improperly formed (verb).
- allii* Panzer, 1804: 72 (*Musca*). Germany, Regensburg. T A Unknown.
- alni* Scopoli, 1763: 332 (*Musca*). Carniola. T A DESTROY. Calliphoridae, *Eurychaeta muscaria*? Meigen.
- alpesa* Walker, 1849: 901 (*Musca*). Sierra Leone. HT ♂ BMNH. Muscidae, *Musca alpesa* Walker. See Pont 1990: 163.
- alterabilis* Gmelin, 1790: 2843 (*Musca*). Europe. T A NMI.
- alternata* Schrank, 1781: 448 (*Musca*). Austria. T A Unknown. Syrphidae, *Episyrphus cannabina* Scopoli.
- altratus* Harris, 1780: index (*Musca*). Missp. *atratus* Harris. Tachinidae.
- aluta* Walker, 1849: 911 (*Musca*). Lapland? LT ♀ BMNH. Muscidae, *Myospila meditabunda* Fabricius. Lectotype designated by Pont 1970b: 112.
- ambigua* Fallén, 1823: 56 (*Musca*). Sweden, Skåne, Äsperöd. LT ♂ ZIL. Anthomyiidae, *Zaphne ambigua* Fallén. Lectotype designated by Michelsen 1983: 110.
- ambulans* Müller, 1776: 177 (*Musca*). Denmark. T A DESTROY.
- amentaria* Scopoli, 1763: 335 (*Musca*). Carniola. NT ♂ BMNH. Calliphoridae, *Pollenia amentaria* Scopoli. Neotype designated by Rognes 1991a: 218.
- americana* Fabricius, 1775: 774 (*Musca*). South America. HT A UZMC. Cuterebriidae, *Cuterebra americana* Fabricius. See Townsend 1931a: 80.
- americana* Swederus, 1787: 288 (*Musca*). North America. T A BMNH B. Syrphidae, *Eristalis barda* Say. Preocc. Fabricius 1775.
- amica* Linnaeus, 1771: 17 (*Musca*). Sweden, Ryby. T A UNKNOWN. Tephritidae. [Linnaeus 1785: 91].
- amica* Krastin, 1950: 549 (*Musca*). *Nomen nudum*. Muscidae, *Musca amita* Hennig.
- amica* Zimin, 1951: 145, fig. 126 (*Musca*). Mongolia & USSR, Siberia. ST ♂ ♀ ASL. Muscidae, *Musca amita* Hennig. Preocc. Linnaeus 1771.

- amicula** Harris, 1780: 158, pl. 47, fig. 7 (*Musca*). England. T A Unknown. Dolichopodidae.
- amita** Hennig, 1964: 986 (*Musca*). N. n. *Musca amica* Zimin. Muscidae, *Musca amita* Hennig.
- amoena** Harris, 1835: 599 (*Musca*). *Nomen nudum*. Massachusetts. T A MCZ. Muscidae, *Neomyia cornicina* Fabricius. Published without diagnosis or indication.
- analis** Macquart, 1843: 311, pl. 21, fig. 2 (*Musca*). Chile. HT ♂ MNHNP. Muscidae, *Musca domestica* Linnaeus. See Pont 1967: 182.
- anceps** Fabricius, 1805: 296 (*Musca*). South America. HT A UZMC. Tachinidae, *Trichodura anceps* Fabricius. See Townsend 1931a: 95.
- angelicae** Scopoli, 1763: 329 (*Musca*). Carniola. T A DESTROY. Muscidae, *Phaonia angelicae* Scopoli.
- angusticornis** Ratzeburg, 1844: 173 (*Musca*). Germany. T A Unknown. Tachinidae, *Baumhaueria goniaeformis* Meigen.
- angustifrons** Thomson, 1868: 546 (*Musca*). Marianas, Ponape. LT ♂ NRS. Muscidae, *Musca vetustissima* Walker. Lectotype designated by Pont 1977a: 128.
- anilis** Linnaeus, 1761: 442 (*Musca*). Sweden, Skåne. T A LSL. Therevidae, *Dialineura anilis* Linnaeus. 3 sp. in LSL (Dear MS).
- annexa** Müller, 1776: 173 (*Musca*). Denmark. T A Author. Syrphidae, *Neoascia annexa* Müller. See Thompson 1981b: 472.
- annonae** Fabricius, 1794: 358 (*Musca*). West Indies. T A UZMC F. Otitidae, *Euxesta annonae* Fabricius.
- annulata** Schrank, 1781: 477 (*Musca*). Austria, Vienna. T A Unknown. Preocc. Harris 1776.
- annulata** Geoffroy, 1785: 492 (*Musca*). France, Paris. T A Author. Preocc. Harris 1776.
- annulata** Fabricius, 1787: 348 (*Musca*). Cayenne. T A UZMC F. Micropezidae, *Taeniptera meigenii* Perty. Preocc. Harris 1776.
- annulata** de Villers, 1789a: 418 (*Musca*). Subsequent Usage of *Nemotelus annulatus* De Geer. Rhagionidae, *Rhagio annulatus* De Geer.
- annulatus** Harris, 1776: 40, pl. 10, fig. 4 (*Musca*). England. T A Unknown. Syrphidae, *Volucella inanis* Linnaeus.
- anteambulo** Harris, 1776: 60, pl. 15, fig. 17 (*Musca*). England. T A Unknown. Syrphidae, *Xanthogramma festiva* Linnaeus.
- anteambulo** Harris, 1776: 60 (*Musca*). Incomp. *anteambulo* Harris. Syrphidae, *Xanthogramma festiva* Linnaeus. Name revised by Goffe 1946: 75. Name improperly formed (verb).
- anthracina** Meigen, 1838: 301 (*Musca*). Germany & Belgium, Liège. LT ♀ MNHNP. Calliphoridae, *Melinda viridicyanea* Robineau-Desvoidy. Lectotype designated by Rognes 1991a: 203.
- anthrax** Schrank, 1781: 439 (*Musca*). Austria, Vienna, Prater. T A Unknown. Bombyliidae, *Anthrax anthrax* Schrank.
- antiquissima** Walker, 1849: 901 (*Musca*). Australia. HT ♂ BMNH. Muscidae, *Musca domestica* Linnaeus. See Pont 1973: 169 & 1990: 163.
- aphidioides** Scopoli, 1763: 349 (*Musca*). Carniola. T A DESTROY.
- aphidivora** Geoffroy, 1785: 481 (*Musca*). France, Paris. T A Author. Syrphidae.

- apiaria Gmelin, 1790: 2867 (*Musca*). Subsequent Usage of *Syrphus apiarius* Fabricius. Muscidae, *Mesembrina mystacea* Linnaeus.
- apiformis De Geer, 1776: 128, pl. 7, fig. 18 (*Musca*). Sweden. T A NRS. Syrphidae, *Microdon apiformis* De Geer.
- apiformis Schrank, 1781: 459 (*Musca*). Austria, Vienna. T A Unknown. Syrphidae, *Pocota personata* Harris. Preocc. De Geer 1776.
- apiformis Geoffroy, 1785: 488 (*Musca*). Sweden. T A LSL. Syrphidae, *Eristalis tenax* Linnaeus. Preocc. De Geer 1776.
- apivora De Geer, 1776: 56, pl. 3, fig. 4 (*Musca*). Sweden. T A NRS. Syrphidae, *Volucella inanis* Linnaeus.
- aquatica Geoffroy, 1785: 478 (*Musca*). France, Paris. T A Author. Otitidae, *Dorycera aquatica* Geoffroy. N. Comb.
- aratoria Fabricius, 1794: 344 (*Musca*). Barbaria. T A MNHNP. Sciomyzidae, *Ilione albiseta* Scopoli.
- arbustorum Linnaeus, 1758a: 591 (*Musca*). Sweden. T A LSL. Syrphidae, *Eristalis arbustorum* Linnaeus. See Thompson *et al.* 1982: 151.
- arctii De Geer, 1776: 42, pl. 2, fig. 6 (*Musca*). N. n. *Musca solstitialis* Linnaeus. Tephritidae, *Urophora solstitialis* Linnaeus.
- arcuata Linnaeus, 1758a: 592 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Chryso-toxum arcuatum* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 152.
- arcuata Fabricius, 1781: 451 (*Musca*). Germany, Kiel. T A UZMC F. Tephritidae, *Xyphosia miliaria* Schrank. Preocc. Linnaeus 1758.
- arcuata Panzer, 1798c: 15 (*Musca*). Austria. T ♀ ZMHU. Syrphidae, *Brachyopa maculipennis* Thompson. Preocc. Linnaeus 1758.
- ardea Turton, 1801: 633 (*Musca*). Subsequent Usage of *Rhagio ardea* Fabricius. Therevidae, *Cliorismia ardea* Fabricius.
- argentata Gmelin, 1790: 2843 (*Musca*). Europe. T A NMI.
- argentea Manuel, 1811: 19 (*Musca*). Emend. *argentata* Gmelin.
- argyrostoma Schrank, 1781: 460 (*Musca*). Austria, Vienna. T A Unknown. Tachinidae, *Servillia ursina*? Meigen.
- aricioides Walker, 1864: 216 (*Musca*). Aru Islands. HT ♂ BMNH. Muscidae, *Myiophaea spissa* Walker. See Pont 1966: 88.
- aristata Panzer, 1801: 24 (*Musca*). Germany. T A ZMHU. Psilidae, *Loxocera ichneumonaea* Linnaeus.
- armipes Fallén, 1825: 75 (*Musca*). Sweden, Skåne. LT ♀ ZIL. Muscidae, *Hydrotaea armipes* Fallén. Lectotype designated by Pont 1984: 281.
- arnicae Linnaeus, 1758a: 600 (*Musca*). Europe. LT A Lost. Tephritidae, *Tephritis arnicae* Linnaeus. Lectotype designated by White 1987: 101.
- arrogans Linnaeus, 1761: 457 (*Musca*). Sweden. T A LSL. Empididae, *Tachydromia arrogans* Linnaeus, 1 sp. in LSL (Dear MS).
- artemisiae Fabricius, 1794: 351 (*Musca*). Denmark. T A UZMC. Tephritidae, *Trypeta artemisiae* Fabricius.
- arvorum Fabricius, 1787: 335 (*Syrphus*). China. T A UZMC. Syrphidae, *Eristalinus arvorum* Fabricius.
- arvorum Gmelin, 1790: 2869 (*Musca*). Subsequent Usage of *Syrphus arvorum* Fabricius. Syrphidae, *Eristalinus arvorum* Fabricius.
- ascarides Scudder, 1877: 756 (*Musca*). Colorado, White River [Oligocene]. T X USNM. Oestridae, *Hypoderma ascarides* Scudder.



- aselliformis** Geoffroy, 1785: 475 (*Musca*). France, Paris. T A Author.
- asiatica** Shinonaga & Kano, 1977: 111, fig. 2 (*Musca*). Thailand, Khao Yai. HT ♂ NSMT. Muscidae, *Musca asiatica* Shinonaga & Kano.
- asiliformis** Gmelin, 1790: 2871 (*Musca*). Subsequent Usage of *Syrphus asiliformis* Fabricius. Syrphidae, *Leucozona lucorum* Linnaeus.
- asiliformis** Preyssler, 1791: 99, pl. 3, fig. 13 (*Musca*). Czechoslovakia, Prague, Stromovke Park. T A DESTROY. Rhagionidae, *Chrysopilus asiliformis* Preyssler. Unrecognized See Rozkosny, Chvála & Pont 1982: 353.
- assimilis** Fallén, 1823: 56 (*Musca*). South Sweden. LT ♀ ZIL. Muscidae, *Muscina levida* Harris. Lectotype designated by Pont 1984: 281.
- ater** Harris, 1776: 58, pl. 15, fig. 11 (*Musca*). England. T A Unknown. Syrphidae, *Eristalinus sepulchralis* Linnaeus.
- aterrima** de Villers, 1789a: 548 (*Musca*). Europe. T A Author. Tachinidae, *Leucostoma aterrima* de Villers. See Townsend 1932: 33 (HT in MNHNP).
- aterrima** Fabricius, 1794: 334 (*Musca*). France. T A MNHNP. Phoridae, *Phora atra* Meigen. Preocc. de Villers 1789. N. Comb.
- atherix** Donovan, 1813: 23 (*Musca*). N. n. *Atherix maculatus* Meigen. Athericidae, *Atherix ibis* Fabricius.
- atra** Meuschen, 1787: 212 (*Musca*). Unknown. T A Auction. Preocc. Harris 1776.
- atra** de Villers, 1789a: 551 (*Musca*). Europe. T A Author. Rhinophoridae. Preocc. Harris 1776.
- atra** Fallén, 1823: 59 (*Musca*). Sweden, Skåne. HT ♀ ZIL. Muscidae, *Thricops longipes* Zetterstedt. Preocc. Harris 1776. See Pont 1984: 281.
- atramentaria** Meigen, 1826: 65 (*Musca*). Austria. T A NMW. Calliphoridae, *Pollenia atramentaria* Meigen.
- atrata** Fabricius, 1794: 333 (*Musca*). Germany. T A UZMC F. Piophilidae, *Piophila casei* Linnaeus. Preocc. Harris 1776.
- atratura** Ratzeburg, 1844: 170 (*Musca*). Germany. T A Unknown. Chamaemyiidae, *Leucopis atratura* Ratzeburg.
- atratus** Harris, 1776: 37, pl. 9, fig. 7 (*Musca*). England. T A Unknown. Tachinidae.
- atricolor** Fallén, 1825: 82 (*Musca*). Sweden, Skåne. LT ♂ NRS. Muscidae, *Helina atricolor* Fallén. Lectotype designated by Pont 1984: 281.
- atrifrons** Wiedemann, 1830: 403 (*Musca*). Unknown. T ♀ NMW. Tachinidae, *Tromodesiopsis atrifrons* Wiedemann. See Aldrich 1929: 4; Townsend 1931a: 96.
- atrifrons** Bigot, 1887: clxxiii (*Musca*). Cuba. LT ♀ BMNH. Muscidae, *Musca domestica* Linnaeus. Preocc. Wiedemann 1830. Lectotype designated by Pont 1990: 164.
- atropos** Schrank, 1776: 94 (*Musca*). Austria, Linz & Vienna. T A Unknown. Syrphidae, *Myathropa florea* Linnaeus.
- aucta** Walker, 1853b: 334 (*Musca*). Madras or Calcutta. T ♀ BMNH. Calliphoridae, *Calliphora vicina* Robineau-Desvoidy. Preocc. Harris 1780.
- auctus** Harris, 1780: 126, pl. 36, fig. 57 (*Musca*). England. T A Unknown. Anthomyiidae, *Pegomya* sp.
- audaculus** Harris, 1780: 121, pl. 35, fig. 41 (*Musca*). England. T A Unknown. Anthomyiidae, *Paregle audacula* Harris.
- augur** Fabricius, 1775: 777 (*Musca*). Australia. T A BMNH B. Calliphoridae, *Calliphora augur* Fabricius.

- aurata* Linnaeus, 1764a: 309 (*Musca*). *Nomen nudum*. [France]. Published in non-binominal work.
- aurata* Müller, 1764: 86 (*Musca*). Denmark, Sjaelland, Frederiksdal. T A Author.
- aurata* Fabricius, 1787: 347 (*Musca*). Germany, Kiel. T A UZMC F. Stratiomyidae, *Chloromyia formosa* Scopoli. Preocc. Müller 1764.
- aurifacies* Robineau-Desvoidy, 1830: 396 (*Musca*). France, Paris. T ♂ DESTROY. Muscidae, *Musca domestica* Linnaeus.
- auriflua* Wiedemann, 1830: 364 (*Musca*). [Brazil] Included under *Musca tessellata* Fabricius. HT A ZMHU. Sarcophagidae, *Oxysarcodexia aurifinis* Walker. Published in synonymy, not subsequently validated by usage. See Townsend (1931a: 74) for HT designation.
- aurifrons* de Villers, 1789a: 549, pl. 10, fig. 10 (*Musca*). Occitania [=France, Languedoc]. T A Author. Tachinidae, *Ectophasia crassipennis* Fabricius.
- aurulans* Robineau-Desvoidy, 1830: 397 (*Musca*). Brazil & Cayenne. T ♂ DESTROY. Muscidae, *Musca domestica* Linnaeus.
- aurulans* Walker, 1849: 893 (*Musca*). Subsequent Usage of *Calliphora aurulans* Robineau-Desvoidy. Calliphoridae, *Cynomya cadaverina* Robineau-Desvoidy.
- australia* Sherborn, 1922: 607 (*Musca*). Missp. *australia* Macquart. Muscidae, *Musca domestica* Linnaeus.
- australis* Gmelin, 1790: 2833 (*Musca*). N. n. *Stratiomys testacea* Fabricius. Xylophagidae, *Coenomyia ferruginea* Scopoli.
- australis* Robineau-Desvoidy, 1830: 394 (*Sphora*). Australia, W. A., "Baie des Chiens-Marins." T ♀ DESTROY. Muscidae, *Musca domestica* Linnaeus.
- australis* Boisduval, 1835: 669 (*Musca*). Australia, Port King George. T A MNHNP. Calliphoridae, *Calliphora albifrontalis* Malloch. Preocc. Gmelin 1790.
- australis* Macquart, 1843: 309, pl. 20, fig. 10 (*Musca*). Tasmania, Hobart. LT ♂ MNHNP. Muscidae, *Musca domestica* Linnaeus. Preocc. Gmelin 1790. Lectotype designated by Pont 1967: 187.
- ausus* Harris, 1780: 85, pl. 25, fig. 16 (*Musca*). England. T A Unknown. Tachinidae.
- autumnalis* De Geer, 1776: 83 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Musca autumnalis* De Geer. Lectotype designated by Persson, Pont & Michelsen 1984: 92.
- avarus* Harris, 1780: 152, pl. 45, fig. 80 (*Musca*). England. T A Unknown. Heleomyzidae.
- avenae* Bjerkander, 1781: 172 (*Musca*). Sweden. T A UNKNOWN. Chloropidae, *Oscinella frit* Linnaeus.
- azurea* Fallén, 1817: 245 (*Musca*). Sweden, Västergötland. LT A NRS. Calliphoridae, *Protocalliphora azurea* Fallén. Lectotype designated by ICZN 1990: 235.
- azurea* Walker, 1849: 880 (*Musca*). Subsequent Usage of *Lucilia azurea* Robineau-Desvoidy. Calliphoridae, *Lucilia caesar* Linnaeus.
- azurea* Doleschall, 1859: 111 (*Musca*). Amboina. T A Lost. Calliphoridae, *Lucilia papuensis* Macquart. Preocc. Fallén 1817. Types not found in NMW or ZMHU (Pont).
- bakeri* Patton, 1923a: 316 (*Musca*). Philippines. ST ♂ ♀ USNM. Muscidae, *Musca bakeri* Patton. See Pont 1990: 164; syntypes also in BMNH & MCSNM.
- balteata* De Geer, 1776: 116 (*Musca*). Sweden. T A NRS. Syrphidae, *Episyrphus cannabina* Scopoli.

- bardus** Harris, 1780: 106, pl. 32, fig. 39 (*Musca*). England. T A Unknown. Syrphidae, *Cheilosia bardus* Harris.
- basalis** Walker, 1853b: 347 (*Musca*). Jamaica. T ♂ BMNH. Muscidae, *Morellia basalis* Walker.
- basilaris** Macquart, 1843: 310 (*Musca*). Brazil. T ♀ MNHNP. Muscidae, *Musca domestica* Linnaeus.
- bata** Walker, 1849: 875 (*Musca*). Unknown. T A BMNH. Calliphoridae, *Chrysomya megacephala* Fabricius.
- beckeri** Schnabl, 1911: 325 (*Plaxemyia*). Israel, Haifa. HT ♀ Lost? Muscidae, *Musca albina* Wiedemann. Type either in PAN (Schnabl collection, destroyed 1945) or ZMHU.
- benedicta** Walker, 1858b: 105 (*Musca*). Aru Islands. LT ♂ BMNH. Muscidae, *Neomyia timorensis* Robineau-Desvoidy. Lectotype designated by Pont 1966: 89.
- bezzii** Patton & Cragg, 1913a: 19, pl. 4 (*Musca*). India, Kodaikanal & Kotagiri. ST ♂ ♀ Lost. Muscidae, *Musca bezzii* Patton & Cragg. Types lost, not now in BMNH (Pont 1990: 164).
- bibosa** Scudder, 1877: 757 (*Musca*). Colorado, White River [Oligocene]. T X USNM.
- bibula** Wiedemann, 1830: 672 (*Musca*). *Nomen nudum*. A UNKNOWN. Calliphoridae, *Chrysomya albiceps* Wiedemann.
- bicincta** Linnaeus, 1758a: 592 (*Musca*). Sweden. LT ♂ LSL. Syrphidae, *Chrysotoxum bicinctum* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 152.
- bicinctata** Turton, 1801: 644 (*Musca*). N. n. *Musca bicincta* Linnaeus. Syrphidae, *Chrysotoxum bicinctum* Linnaeus.
- bicolor** de Villers, 1789a: 511 (*Musca*). N. n. *Musca putris* Geoffroy. T A Author.
- bicolor** Fabricius, 1798: 564 (*Musca*). France. T A MNHNP. Preocc. de Villers 1789.
- bicolor** Fabricius, 1805: 291 (*Musca*). South America. HT ♀ UZMC. Calliphoridae, *Mesembrinella bicolor* Fabricius. Preocc. de Villers 1789. See Townsend 1931a: 69.
- bicolor** Fallén, 1825: 91 (*Musca*). Subsequent Usage of *Anthomyia bicolor* Wiedemann. Anthomyiidae, *Pegomya bicolor* Wiedemann.
- bicolor** Meigen, 1838: 308 (*Musca*). Subsequent Usage of *Pollenia bicolor* Macquart. Calliphoridae, *Pollenia bicolor* Macquart.
- bicolor** Walker, 1853b: 339 (*Musca*). Unknown. T ♂ BMNH. Calliphoridae, *Phormia regina* Meigen. Preocc. de Villers 1789. N. Syn.
- bicolora** Sulzer, 1776: xxv (*Musca*). *Nomen nudum*. Switzerland. T A UNKNOWN. Bombyliidae, *Hemipenthes morio* Linnaeus. Published without diagnosis or indication. Synonymy by Fuesslin (1778: 165).
- bidentata** de Villers, 1789a: 429, pl. 9, fig. 14 (*Musca*). Southern France, Nemausum [? = Nemours]. T A Author. Bibionidae, *Bibio* sp.
- bifasciata** Fabricius, 1775: 777 (*Musca*). West Indies, Virgin Islands. HT A UZMC F. Tachinidae, *Belvosia bifasciata* Fabricius. See Townsend 1931b: 176.
- bifasciata** Schrank, 1776: 95, pl. 3, fig. 21 (*Musca*). Austria, Linz. T A Unknown. Syrphidae, *Neoscia annexa* Müller. Preocc. Fabricius 1775. See Thompson 1981b: 472.
- bigemmis** Walker, 1853b: 341 (*Musca*). Cape. T ♂ BMNH. Calliphoridae, *Chrysomya chloropyga* Wiedemann.
- bilineata** de Villers, 1789a: 550 (*Musca*). Europe. T A Author.

- bilineata* Gmelin, 1790: 2830 (*Musca*). Subsequent Usage of *Bibio bilineata* Fabricius. Therevidae, *Anabarynchus bilineatus* Fabricius.
- bilineata* Gmelin, 1790: 2866 (*Musca*). N. n. *Rhagio punctatus* Fabricius. Anisopodidae, *Sylvicola punctatus* Fabricius. Preocc. de Villers 1789.
- bimaculata* Swederus, 1787: 290 (*Musca*). Australia. T A Lost. Type(s) not now in BMNH B (Pont).
- bipuncta* Wiedemann, 1830: 417 (*Musca*). Brazil. LT ♀ NMW. Muscidae, *Morellia bipuncta* Wiedemann. Lectotype designated by Pont in Pamplona (1986: 50).
- bipunctata* Scopoli, 1763: 341 (*Musca*). Carniola. T A DESTROY. Stratiomyidae, *Sargus bipunctatus* Scopoli.
- bipunctata* Müller, 1776: 174 (*Musca*). France, Paris. T A Author. Syrphidae, *Chrysotoxum arcuatum* Linnaeus. Preocc. Scopoli 1763.
- biseta* Hough, 1898: 173 (*Musca*). Somalia, Sheikh Husein. LT ♀ ANSP. Muscidae, *Musca biseta* Hough. Lectotype designated by Pont 1976: 269.
- bivittata* Doleschall, 1859: 111 (*Musca*). Amboina. T A DESTROY. Calliphoridae, *Euphrosia bivittata* Doleschall.
- bivittata* Thomson, 1868: 547 (*Musca*). Philippines, Luzon, Manila. T ♂ NRS. Muscidae, *Musca sorbens* Wiedemann. Preocc. Doleschall 1859.
- blandus* Harris, 1780: 106, pl. 32, fig. 38 (*Musca*). England. T A Unknown. Syrphidae, *Syrphus ribesii* Linnaeus.
- boganidae* Erichson, 1851: 67 (*Musca*). USSR, W. Taymyr, River Boganida. T A UNKNOWN. Calliphoridae, *Protophormia atriceps* Zetterstedt.
- bohemia* Preyssler, 1793: 203 (*Musca*). Czechoslovakia, Roupov in Plzen District. T A DESTROY. Tachinidae. See Rozkosny, Chvála & Pont 1982: 353.
- bombinatrix* Schrank, 1837: 17 (*Musca*). N. n. *Syrphus apiarius* Fabricius. Muscidae, *Mesembrina mystacea* Linnaeus.
- bombylans* Linnaeus, 1758a: 591 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Volucella bombylans* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 152.
- bombyliformis* Geoffroy, 1785: 479 (*Musca*). France, Paris. T A Author. Syrphidae, *Merodon equestris* Fabricius.
- bombylina* Retzius, 1783: 181 (*Musca*). Emend. *bombylius* De Geer. Muscidae, *Mesembrina mystacea* Linnaeus.
- bombylius* De Geer, 1776: 133, pl. 8, fig. 1-3 (*Musca*). N. n. *Musca mystacea* Linnaeus. Muscidae, *Mesembrina mystacea* Linnaeus.
- bombyloides* Sulzer, 1776: 216 (*Musca*). Switzerland, Zürich. T ♂ Unknown. Muscidae, *Mesembrina mystacea* Linnaeus.
- borealis* Zetterstedt, 1837: 42 (*Musca*). *Nomen nudum*. [Sweden, Lapland]. T A ZIL. Muscidae, *Muscina levida* Harris.
- borealis* Zetterstedt, 1838: 660 (*Musca*). Sweden, Lapland. T A ZIL. Muscidae, *Muscina levida* Harris.
- bovina* Robineau-Desvoidy, 1830: 398 (*Musca*). France. T A DESTROY. Muscidae, *Musca autumnalis* De Geer.
- brachyptera* Panzer, 1798c: 16 (*Musca*). Germany, Nuremberg. T A ZMHU. Tachinidae, *Phasia crassipennis* Fabricius.
- braesia* Walker, 1849: 891 (*Musca*). South Africa. T ♂ BMNH. Muscidae, *Neomyia peronii* Robineau-Desvoidy.
- brassicaria* Fabricius, 1775: 778 (*Musca*). Europe. T A UZMC F. Tachinidae, *Cylindromyia brassicaria* Fabricius.



- brevis* Rossi, 1790: 306 (*Musca*). Italy, Tuscany, Firenze & Pisa. T A ZMHU. Tachinidae, *Leucostoma aterrima* de Villers.
- brunnea* Thunberg, 1789: 89 (*Musca*). N. n. *Syrphus inanis* Fabricius. Syrphidae, *Copestylum brunneum* Thunberg.
- brunnea* Gmelin, 1790: 2859 (*Musca*). Europe. T A NMI. Preocc. Thunberg 1789.
- buccata* Scopoli, 1763: 342 (*Musca*). Carniola. T A DESTROY.
- buccata* Fallén, 1824: 65 (*Musca*). Sweden, Skåne. LT ♀ NRS. Anthomyiidae, *Leucophora sericea* Robineau-Desvoidy. Preocc. Scopoli 1763. Lectotype designated by Michelsen 1983: 111.
- buphthalmi* Linnaeus, 1762: 471 (*Musca*). Palestine. T A LSL. Suppressed by I.C.Z.N. 1914: 31.
- cadaverina* Linnaeus, 1758a: 595 (*Musca*). Sweden. LT ♀ LSL. Calliphoridae, *Lucilia caesar* Linnaeus. Lectotype designated by Pont 1981: 167.
- cadaverum* Kirby, 1837: 316 (*Musca*). "North America, lat. 65". T A Unknown. Calliphoridae.
- caemeteriorum* Turton, 1801: 648 (*Musca*). Emend. *cemiteriorum* Linnaeus. Syrphidae, *Chrysogaster cemiteriorum* Linnaeus.
- caerulea* Meigen, 1826: 63 (*Musca*). Germany. LT ♂ MNHNP. Calliphoridae, *Melinda gentilis* Robineau-Desvoidy. Preocc. Wiedemann 1819. Lectotype designated by Rognes 1991a: 205.
- caerulea* Brullé, 1832: 315 (*Musca*). Greece, Morea. T ♀ UNKNOWN. Calliphoridae, *Lucilia* sp. Preocc. Wiedemann 1819.
- caeruleophthalmica* Scopoli, 1763: 331 (*Musca*). Carniola. T A DESTROY. Lauxaniidae, *Sapromyza* sp.
- caerulescens* de Villers, 1789a: 464 (*Musca*). Bressia [= Bresse, France]. T A Author. Stratiomyidae, *Sargus iridatus* Scopoli.
- caerulescens* Meigen, 1826: 55 (*Musca*). Austria. T ♀ NMW. Calliphoridae, *Lucilia sericata* Meigen. Preocc. de Villers 1789.
- caerulescens* Meigen, 1838: 307 (*Musca*). Subsequent Usage of *Pollenia caerulescens* Macquart. Calliphoridae, *Pollenia rudis* Fabricius.
- caesar* Linnaeus, 1758a: 595 (*Musca*). Europe. T A LSL. Calliphoridae, *Lucilia caesar* Linnaeus. 3 sp. in LSL (Dear MS).
- caesarina* Scopoli, 1763: 327 (*Musca*). Carniola. T A DESTROY. Calliphoridae, *Lucilia* sp.
- caesarion* Scharfenberg, 1805: 999 (*Musca*). Germany. T A Unknown. Calliphoridae, *Lucilia* sp. Accredited to Hellwig in the index (p. 1041).
- caesarion* Meigen, 1826: 57 (*Musca*). Portugal. HT ♀ NMW. Muscidae, *Neomyia cornicina* Fabricius. Preocc. Scharfenberg 1805. See Pont 1986b: 215.
- caesia* Rossi, 1790: 310 (*Musca*). Italy, Tuscany, Firenze & Pisa. T A ZMHU. Stratiomyidae, *Microchrysa polita* Linnaeus.
- caesia* Meigen, 1826: 76 (*Musca*). Austria. HT ♀ NMW. Muscidae, *Muscina prolapsa* Harris. Preocc. Rossi 1790. See Pont 1986b: 216.
- caesio* Harris, 1780: 75, pl. 21, fig. 8 (*Musca*). England. T A Unknown. Tephritidae, *Myoleja caesio* Harris.
- calamitosa* Bjerkander, 1777: 32 (*Musca*). Sweden. T A UNKNOWN. Chloropidae.
- calcarata* Turton, 1801: 648 (*Musca*). Subsequent Usage of *Syrphus calcaratus* Fabricius. Syrphidae, *Merodon calcarata* Fabricius.

- calcitrans* Harris, 1780: 141 (*Musca*). Subsequent Usage of *Conops calcitrans* Linnaeus. Muscidae, *Stomoxys calcitrans* Linnaeus.
- calisia* Walker, 1849: 912 (*Musca*). South Africa. T ♀ DESTROY. Muscidae, *Morellia calisia* Walker. [teste Pont].
- calleva* Walker, 1849: 905 (*Musca*). South Africa. HT ♀ BMNH. Muscidae, *Musca calleva* Walker. See Pont 1990: 164.
- calliphoroides* Walker, 1861b: 245 (*Musca*). New Guinea, Dorey. ST ♀ BMNH. Calliphoridae, *Euphumosia papua* Guérin-Méneville. ST also in UMO (teste Pont).
- callosus* Harris, 1776: 61, pl. 15, fig. 18 (*Musca*). England. T A Unknown. Syrphidae, *Chrysotoxum bicinctum* Linnaeus.
- campestris* Robineau-Desvoidy, 1830: 395 (*Musca*). France, Saint-Sauveur? T ♀ DESTROY. Muscidae, *Musca autumnalis* De Geer.
- canpicola* Robineau-Desvoidy, 1863: 627 (*Musca*). France, Nice. T A DESTROY. Muscidae, *Musca domestica* Linnaeus.
- canicularis* Linnaeus, 1761: 454 (*Musca*). N. n. *Musca lateralis* Linnaeus. Fanniidae, *Fannia canicularis* Linnaeus. Conserved by I.C.Z.N. 1969:124.
- canicularis* Houuttuyn, 1768: 506 (*Musca*). Subsequent Usage of *Musca canicularis* Linnaeus. Fanniidae, *Fannia canicularis* Linnaeus.
- canina* Fabricius, 1781: 440 (*Musca*). England. T A BMNH B. Tachinidae, *Dexiosoma caninum* Fabricius.
- cannabina* Scopoli, 1763: 344 (*Musca*). Carniola. T A DESTROY. Syrphidae, *Episyrphus cannabina* Scopoli.
- canus* Harris, 1780: 114, pl. 33, fig. 28 (*Musca*). England. T A Unknown. Tachinidae.
- capensis* Meuschen, 1787: 212 (*Musca*). *Nomen nudum*. Unknown. T A Auction. Bombyliidae? Published without diagnosis or indication.
- capensis* Zielke, 1971b: 214 (*Musca*). South Africa, S. W. Cape, N of Van Rhynsdorp. HT ♂ NMP. Muscidae, *Musca capensis* Zielke.
- capitata* De Geer, 1776: 23, pl. 1, fig. 300 (*Musca*). Sweden. T A NRS. Tachinidae, *Gonia capitata* De Geer.
- capito* Lichtenstein, 1796: 216 (*Musca*). Sinai. T A Auction.
- capraria* Linnaeus, 1758: 598 (*Musca*). Incosp. *cuprarius* Linnaeus. Stratiomyidae, *Sargus cuprarius* Linnaeus.
- capucina* Gmelin, 1790: 2831 (*Musca*). Subsequent Usage of *Bibio capucina* Fabricius. Bombyliidae, *Exoprosopa capucina* Fabricius.
- characteristica* Geoffroy, 1785: 494 (*Musca*). France, Paris. T A Author.
- carbonaria* Panzer, 1798a: 15 (*Musca*). Austria. T A ZMHU. Tachinidae, *Periscepsia carbonaria* Panzer. "HT in Berlin?, not seen" (Townsend 1932: 34).
- cardui* Linnaeus, 1758a: 600 (*Musca*). France. LT A Lost. Tephritidae, *Urophora cardui* Linnaeus. Lectotype designated by White 1987: 102.
- cardui* Geoffroy, 1785: 471 (*Musca*). Subsequent Usage of *Musca cardui* Linnaeus. Tephritidae, *Urophora cardui* Linnaeus.
- carinata* Meuschen, 1787: 212 (*Musca*). Unknown. T A Auction.
- carinifrons* Fallén, 1817: 243 (*Musca*). Sweden, Skåne. HT A NRS. Tachinidae, *Dinera carinifrons* Fallén. See Townsend 1932: 37.
- carnaria* Linnaeus, 1758a: 596 (*Musca*). Europe & America. LT ♂ LSL. Sarcophagidae, *Sarcophaga carnaria* Linnaeus. Lectotype designated by Richet 1986: 132.

- carnaria**, Scopoli, 1763: 325 (*Musca*). Misid. *carnaria* Linnaeus. Calliphoridae, *Calliphora vomitoria* Linnaeus.
- carnarida** Stephens, 1829a: 60 (*Musca*). *Nomen nudum*. England. T ♀ BMNH. Calliphoridae, *Protocalliphora rognesi* Thompson & Pont. Published without diagnosis or indication.
- carnifex**, Robineau-Desvoidy, 1830: 393 (*Byomya*). France, Saint-Sauveur. T ♂ DESTROY. Muscidae, *Musca tempestiva* Fallén.
- carnifex** Macquart, 1834: 158 (*Musca*). Subsequent Usage of *Byomya carnifex* Robineau-Desvoidy. Muscidae, *Musca tempestiva* Fallén.
- carnivora** Fabricius, 1794: 313 (*Musca*). Germany. HT A UZMC F. Calliphoridae, *Calliphora vicina* Robineau-Desvoidy. Suppressed by I.C.Z.N. 1992: 90. See Rognes 1991a: 68.
- caruca** Walker, 1849: 877 (*Musca*). Chile. T ♀ BMNH. Calliphoridae, *Compsomyiops fulvicrura* Robineau-Desvoidy.
- casei** Linnaeus, 1758a: 597 (*Musca*). Europe. T A LSL. Piophilidae, *Piophila casei* Linnaeus.
- cassara** Pont, 1973: 160, fig. 47 (*Musca*). Solomon Islands, Guadalcanal, Kukum. HT ♂ BMNH. Muscidae, *Musca cassara* Pont. See Pont 1990: 164.
- castanea** Meuschen, 1787: 212 (*Musca*). Unknown. T A Auction.
- caudata** Geoffroy, 1785: 480 (*Musca*). France, Paris. T A Author.
- caudex** Harris, 1780: 158, pl. 47, fig. 6 (*Musca*). England. T A Unknown. Dolichopodidae.
- cautus** Harris, 1776: 60, pl. 15, fig. 15 (*Musca*). England. T ♀ Unknown. Syrphidae, *Chrysotoxum cautum* Harris.
- cellaris** Linnaeus, 1758a: 597 (*Musca*). Europe. T A LSL. Drosophilidae, *Drosophila funebris?* Fabricius. Type(s) lost (Bächli 1990: 845).
- cellaris** Bloch, 1776: 173 (*Musca*). Subsequent Usage of *Musca cellaris* Linnaeus. Drosophilidae, *Drosophila funebris?* Fabricius.
- cellaris** Geoffroy, 1785: 499 (*Musca*). Subsequent Usage of *Musca cellaris* Linnaeus. Drosophilidae, *Drosophila funebris?* Fabricius.
- celsus** Harris, 1780: 125, pl. 36, fig. 53 (*Musca*). England. T ♂ Unknown. Muscidae, *Helina celsa* Harris.
- cemiteriorum** Linnaeus, 1758a: 597 (*Musca*). Sweden. LT ♂ LSL. Syrphidae, *Chrysogaster cemiteriorum* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 152.
- centaureae** Fabricius, 1794: 360 (*Musca*). Germany, Kiel. T A UZMC F. Tephritidae, *Euleia heraclii* Linnaeus.
- cephalotes** Bosc, 1792: 55 (*Musca*). France, Paris. T A MNHNP. Pipunculidae, *Pipunculus campestris?* Meigen.
- cerasi** Linnaeus, 1758a: 600 (*Musca*). France. LT A Lost. Tephritidae, *Rhagoletis cerasi* Linnaeus. Lectotype designated by White 1987: 102.
- cerasi** Thunberg, 1789: 91 (*Musca*). T A UNKNOWN. Preocc. Linnaeus 1758.
- cerasina** Harris, 1833: 594 (*Musca*). *Nomen nudum*. Massachusetts. T A MCZ. Tachinidae. Published without diagnosis or indication. . A Say manuscript name.
- cerinus** Harris, 1776: 36, pl. 9, fig. 6 (*Musca*). England. T A Unknown. Tachinidae, *Gymnosoma rotundatum* Linnaeus.
- certima** Walker, 1849: 873 (*Musca*). Florida. HT ♀ BMNH. Calliphoridae, *Cochliomyia macellaria* Fabricius. [teste Pont].

- chaerophylli** Fabricius, 1798: 565 (*Musca*). Europe. T A UZMC F. Sciomyzidae, *Euthycera chaerophylli* Fabricius.
- chalybaea** Gravenhorst, 1807: 378 (*Musca*). Unknown, probably Germany. T A Lost. Calliphoridae.
- chalybata** Forster, 1770: 15 (*Musca*). *Nomen nudum*. England. Stratiomyidae, *Beris chalybata* Forster. Published without diagnosis or indication.
- chalybata** Forster, 1771: 95 (*Musca*). England. T A LSL. Stratiomyidae, *Beris chalybata* Forster.
- chalybea** Turton, 1801: 632 (*Musca*). N. n. *Musca chalybata* Forster. Stratiomyidae, *Beris chalybata* Forster.
- chalybea** Wiedemann, 1830: 402 (*Musca*). Java. T A RNH. Muscidae, *Neomyia gavis* Walker. Preocc. Turton 1801.
- chalybeata** Gmelin, 1790: 2837 (*Musca*). Missp. *chalybata* Forster. Stratiomyidae, *Beris chalybata* Forster.
- chamaeleon** Linnaeus, 1758a: 589 (*Musca*). Europe. T A LSL. Stratiomyidae, *Stratiomys chamaeleon* Linnaeus. 4 sp. in LSL (Dear MS).
- chilensis** Walker, 1836: 354 (*Musca*). Chile. HT ♀ BMNH. Calliphoridae, *Neta chilensis* Walker. See Dear 1979:150.
- chilensis** Macquart, 1843: 311, pl. 20, fig. 6 (*Musca*). Chile. ST ♂ MNHNP. Muscidae, *Musca domestica* Linnaeus. Preocc. Walker 1836.
- chloris** Haliday, 1833: 165 (*Musca*). Ireland, Down, Holywood. T A NMI. Muscidae, *Neomyia cornicina* Fabricius.
- chloropyga** Wiedemann, 1818: 44 (*Musca*). South Africa, Cape of Good Hope. T A UZMC. Calliphoridae, *Chrysomya chloropyga* Wiedemann.
- chorea** Fabricius, 1781: 444 (*Musca*). Germany. T A UZMC F. Lonchaeidae, *Lonchaea chorea* Fabricius.
- chrysocephala** De Geer, 1776: 60 (*Musca*). N. n. *Musca mortuorum* Linnaeus. Calliphoridae, *Cynomya mortuorum* Linnaeus.
- chrysocephala** Gmelin, 1790: 2860 (*Musca*). Europe. T A NMI. Preocc. De Geer 1776.
- chrysoides** Walker, 1856a: 23 (*Musca*). Malaysia, Mt. Ophir. T ♂ BMNH. Calliphoridae, *Isonyia chrysoides* Walker.
- chrysoptera** Schrank, 1803: 126 (*Musca*). Germany, Bavaria. T A Unknown. Lauxaniidae, *Lauxania cylindricornis* Fabricius.
- chrysopus** Gmelin, 1790: 2865 (*Musca*). N. n. *Rhagio flavipes* Fabricius. Athericidae, *Atherix flavipes* Fabricius.
- chrysorrhoea** Scopoli, 1763: 347 (*Musca*). Upper Carniola. T A DESTROY. Syrphidae.
- chrysorrhoea** Meigen, 1826: 60 (*Musca*). [Austria] Neotype from Aachen, Germany. NT ♀ MNHNP. Calliphoridae, *Protocalliphora rognesi* Thompson & Pont. Preocc. Scopoli 1763. Neotype designated by Peus 1960: 209.
- chrysostoma** Lichtenstein, 1796: 216 (*Musca*). Osaureum [ ? = Ouche, France]. T A Auction.
- chrysostoma** Stephens, 1829b: 303 (*Musca*). Britain. Tachinidae, *Dexiosoma caninum* Fabricius. Published in synonymy, not subsequently validated by usage. Published in synonymy with *Dexia canina* Fabricius.
- chrysotelus** Walker, 1853b: 346 (*Musca*). South Africa. T ♂ BMNH. Muscidae, *Pyrellina marsya* Walker.



- chrysozonias* Gmelin, 1790: 2879 (*Musca*). Europe. T A NMI. Syrphidae, *Chryso-  
toxum fasciatum* Müller.
- chui* Fan, 1965: 124 (*Musca*). China, Kwangtung, Nada. HT ♂ SIE. Muscidae, *Musca  
planiceps* Wiedemann.
- cibaria* Linnaeus, 1758a: 599 (*Musca*). Europe. T A LSL. Micropezidae, *Compsobata  
cibaria* Linnaeus. 1 sp. in LSL (Dear MS).
- cicur* Harris, 1776: 47, pl. 11, fig. 88 (*Musca*). England. T A Unknown. Stratiomyidae,  
*Chloromyia formosa* Scopoli.
- ciliata* Müller, 1776: 174 (*Musca*). Denmark. T A DESTROY. Dolichopodidae,  
*Poecilobothrus nobilitatus* Linnaeus.
- ciliata* de Villers, 1789a: 428, pl. 9, fig. 13 (*Musca*). France, Nemausum [?=  
Nemours]. T A Author. Bibionidae, *Dilophus* sp. Preocc. Müller 1776.
- ciliata* Fabricius, 1794: 333 (*Musca*). Germany. HT ♂ UZMC F. Muscidae, *Hydro-  
taea diabolus* Harris. Preocc. Müller 1776. See Michelsen 1979a: 182.
- cimecoides* Fabricius, 1779: 253 (*Musca*). Norway. T A UZMC F. Empididae,  
*Trachydromia arrogans* Linnaeus.
- cimicoides* Fabricius, 1781: 447 (*Musca*). Missp. *cimecoides* Fabricius. Empididae,  
*Trachydromia arrogans* Linnaeus.
- cincta* Müller, 1766: 198 (*Musca*). Italy, Piedmont, Torino. T A IMZ. Tachinidae,  
*Mintho praeceps* Scopoli.
- cincta* Drury, 1773: 109 (*Musca*). Jamaica. T A Author. Syrphidae, *Meromacrùs  
pinguis* Fabricius. Preocc. Müller 1766.
- cincta* de Villers, 1789a: 419 (*Musca*). Subsequent Usage of *Nemotelus cinctus* De  
Geer. Xylophagidae, *Xylophagus cinctus* De Geer.
- cincta* Fabricius, 1794: 347 (*Musca*). Denmark. T A UZMC. Sciomyzidae, *Coremac-  
era fabricii* Rozkosny. Preocc. Müller 1766.
- cinctus* Harris, 1776: 43, pl. 10, fig. 6 (*Musca*). England. T ♂ Unknown. Syrphidae,  
*Eristalis lineata* Harris. Preocc. Müller 1766.
- cinctus* Fabricius, 1787: 333 (*Rhagio*). Germany, Kiel. T A UZMC F. Anisopodidae,  
*Sylvicola cinctus* Fabricius.
- cinraria* Rossi, 1794: 72 (*Musca*). Italy. T A ZMHU.
- cinerascens* Geoffroy, 1785: 493 (*Musca*). France, Paris. T A Author.
- cinerascens* Wiedemann, 1817: 79 (*Musca*). Germany, Holstein. T A UNKNOWN.  
Muscidae, *Muscina stabulans* Fallén. Preocc. Geoffroy 1785.
- cinerea* Linnaeus, 1764a: 301 (*Musca*). *Nomen nudum*. [Sweden]. Tephritidae,  
*Tephritis hyoscyami* Linnaeus. Published in non-binominal work.
- cinerea* de Villers, 1789a: 510 (*Musca*). Europe. T A Unknown. Preocc. Harris 1780.
- cinerea* Fabricius, 1794: 331 (*Musca*). India Orientali. HT ♂ UZMC. Sarcophagidae,  
*Leucomyia alba* Schiner. Preocc. Harris 1780. See Pape 1986: 302. N. Syn.
- cinerea* Fallén, 1824: 70 (*Musca*). Sweden, Skåne. LT ♂ NRS. Anthomyiidae,  
*Botanophila silvatica* Robineau-Desvoidy. Preocc. Harris 1780. Lectotype desig-  
nated by Michelsen 1983: 111.
- cinerea* von Roser, 1840: 58 (*Musca*). Germany, Württemberg. T A SMN. Calliphori-  
dae, *Pollenia* sp. Preocc. de Villers 1780.
- cinerella* Fallén, 1825: 77 (*Musca*). Sweden, Skåne. LT ♂ NRS. Anthomyiidae, *Adia  
cinerella* Fallén. Lectotype designated by Michelsen 1983: 111.
- cinereus* Harris, 1780: 75, pl. 21, fig. 11 (*Musca*). England. T A Unknown. Tephriti-  
dae, *Paroxyna punctella* Fallén.

- cinereus* Harris, 1780: 74 (*Musca*). Inscop. *cinereus* Harris. Tephritidae, *Paroxyna punctella* Fallén. Name status by present revision.
- cingalaisina* Bigot, 1888: 606 (*Musca*). Sri Lanka. HT ♀ BMNH. Muscidae, *Musca planiceps* Wiedemann. See Pont 1990: 164.
- cingulata** Geoffroy, 1785: 477 (*Musca*). France, Paris. T A Author.
- cingulata* Fabricius, 1805: 301 (*Musca*). West Indies. HT ♂ UZMC. Tachinidae, *Calocarcelia fasciata* Townsend. Preocc. Geoffroy 1785. See Townsend 1931b: 174. N. Comb.
- cingulata* Donovan, 1808: 67, pl. 465 (*Musca*). England, Surrey, Nutfield. T ♂ UNKNOWN. Rhagionidae, *Chrysopilus cristatus* Fabricius. Preocc. Geoffroy 1785.
- cingulatus** Fabricius, 1775: 767 (*Syrphus*). New Zealand. T A BMNH B. Syrphidae, *Helophilus cingulatus* Fabricius.
- citrofasciata* Retzius, 1783: 179 (*Musca*). Missp. *citrofasciata* De Geer. Syrphidae, *Xanthogramma festiva* Linnaeus.
- citrofasciata* De Geer, 1776: 118 (*Musca*). N. n. *Musca festiva* Linnaeus. Syrphidae, *Xanthogramma festiva* Linnaeus.
- clandestina** Rossi, 1790: 314 (*Musca*). Italy, Tuscany, Firenze & Pisa. T A ZMHU.
- clauata* Fabricius, 1787: 351 (*Musca*). Germany, Kiel. T A UZMC F. Preocc. Drury 1773.
- clauda** de Villers, 1789a: 463 (*Musca*). Bressia [= Bresse, France]. T A Author. Syrphidae, *Merodon* sp.
- clavipes* Fabricius, 1781: 427 (*Syrphus*). Italy. T A UZMC F. Syrphidae, *Merodon clavipes* Fabricius.
- clavata** Drury, 1773: 103 (*Musca*). North America, New York. T A Author. Mydidae, *Mydas clavatus* Drury.
- clavicornis* Forster, 1770: 15 (*Musca*). *Nomen nudum*. England.
- clavicrus* Schrank, 1781: 471 (*Musca*). Austria, Vienna, Prater. T A Unknown. Chloropidae, *Meromyza saltatrix* Linnaeus.
- claviformis** Geoffroy, 1785: 476 (*Musca*). France, Paris. T A Author.
- clavipes** Linnaeus, 1767: 981 (*Musca*). Europe. T A LSL. Stratiomyidae, *Beris clavipes* Linnaeus. 2 sp. in LSL (Dear MS).
- claviventris** Gmelin, 1790: 2843 (*Musca*). Europe. T A NMI.
- clemens* Harris, 1780: 154, pl. 45, fig. 87 (*Musca*). England. T A Unknown. Fanniidae, *Fannia lustrator* Harris.
- cloacaris** Fabricius, Otto, 1780: 204 (*Musca*). Greenland, Umarsoroluk. T A UZMC. Scathophagidae.
- cluvia** Walker, 1849: 885 (*Musca*). West Indies. T ♀ BMNH. Calliphoridae, *Lucilia cluvia* Walker.
- coalescens** Geoffroy, 1785: 486 (*Musca*). France, Paris. T A Author. Syrphidae, *Psarus coalescens* Geoffroy.
- coarctata** Fallén, 1825: 84 (*Musca*). Sweden, Skåne. LT ♂ NRS. Anthomyiidae, *Delia coarctata* Fallén. Lectotype designated by Michelsen 1983: 111.
- coccinea* de Villers, 1789a: 426 (*Musca*). Subsequent Usage of *Stratiomyia coccinea* Geoffroy. Stratiomyidae, *Clitellaria ephippium* Fabricius.
- coco* Harris, 1780: 143, pl. 42, fig. 51 (*Musca*). England. T ♂ Unknown. Muscidae, *Pyrellia rapax* Harris. Name improperly formed (verb).

- coerulata Sherborn, 1922: 958 (*Musca*). Missp. *coerulea* Wiedemann. Muscidae, *Neomyia* sp.
- coerulea De Geer, 1776: 57 (*Musca*, as *carnaria coerulea*). *Nomen nudum*. [Sweden]. Calliphoridae, *Calliphora vomitoria* Linnaeus. Not available; polynominal, not binominal.
- coerulea Wiedemann, 1819a: 23 (*Musca*). Java. T ♀ DESTROY. Muscidae, *Neomyia* sp. See Pont 1973: 198.
- cognata Meigen, 1830: 374 (*Musca*). N. n. *Musca caerulea* Meigen. Calliphoridae, *Melinda gentilis* Robineau-Desvoidy. N. Syn.
- coleoptrata Scopoli, 1763: 338 (*Musca*). Carniola. T A DESTROY. Drosophilidae, *Stegana coleoptrata* Scopoli.
- collecta Walker, 1859b: 139 (*Musca*). Sulawesi, Makassar. T ♂ BMNH. Calliphoridae, *Rhyncomya setipyga*? Villeneuve.
- colombaschensis de Villers, 1789a: 555 (*Musca*). Subsequent Usage of *Oestrus columbaschensis* Scopoli. Simuliidae, *Simulium* sp.
- colossus Scopoli, 1763: 327 (*Musca*). Carniola. T A DESTROY. Sarcophagidae, *Sarcophaga carnaria*? Linnaeus.
- combinata Linnaeus, 1767: 997 (*Musca*). Sweden. T A LSL. Opomyzidae, *Geomyza combinata* Linnaeus. 1 sp. in LSL (Dear MS).
- combrea Walker, 1849: 876 (*Musca*). Unknown. T A BMNH. Calliphoridae, *Chrysomya megacephala* Fabricius.
- comio Harris, 1780: 153, pl. 45, fig. 86 (*Musca*). Incosp. *comis* Harris. Anthomyiidae.
- comis Harris, 1780: index (*Musca*). England. T A Unknown. Anthomyiidae.
- comito Harris, 1780: 117, pl. 34, fig. 25 (*Musca*). England. T A Unknown. Scathophagidae, *Scathophaga lutaria* Fabricius. Name improperly formed (verb).
- commoror Harris, 1780: 117, pl. 34, fig. 22 (*Musca*). England. T A Unknown. Acalyprate.
- comoror Harris, 1780: 74 (*Musca*). Incosp. *commoror* Harris. Acalyprate. Name status by present revision.
- compressa Fabricius, 1787: 346 (*Musca*). Spain. T A UZMC F. Tachinidae, *Mintho compressa* Fabricius.
- compressa Fabricius, 1794: 337 (*Musca*). Cayenne. T A MNHNP. Tachinidae, *Cordyligaster petiolata* Turton. Preocc. Fabricius 1787. N. Comb.
- compressa Walker, 1849: 893 (*Musca*). Subsequent Usage of *Calliphora compressa* Robineau-Desvoidy. Calliphoridae, *Cynomya cadaverina* Robineau-Desvoidy.
- compunctor Sherborn, 1902: 235 (*Musca*). Missp. *compunctus* Harris. Muscidae, *Graphomya maculata* Scopoli.
- compunctus Harris, 1780: 113, pl. 33, fig. 24 (*Musca*). England. T ♂ Unknown. Muscidae, *Graphomya maculata* Scopoli.
- comtus Harris, 1780: 108, pl. 32, fig. 47 (*Musca*). England. T A Unknown. Syrphidae, *Xanthandrus comtus* Harris.
- concinna Panzer, 1804: 195 (*Musca*). Germany, Regensburg. T A Unknown.
- concinna Wiedemann, 1825: , pl. 21 (*Musca*). "In insula Mezzo Dalmatiae". T A DEI. Calliphoridae, *Rhyncomya impavida* Rossi. Type(s) originally in collection of E. F. Germar.
- concolor Walker, 1853b: 333 (*Musca*). South America. T ♂ DESTROY. Muscidae, *Helina concolor* Walker. [teste Pont].

- conducens** Walker, 1859b: 138 (*Musca*). Sulawesi, Makassar. HT ♂ BMNH. Muscidae, *Musca conducens* Walker. See Pont 1990: 164.
- conferta** Geoffroy, 1785: 474 (*Musca*). France, Paris. T A Author.
- confinis** Fallén, 1825: 80 (*Musca*, as *subpuncta* var.  $\beta$ ). Sweden. LT ♂ NRS. Muscidae, *Helina confinis* Fallén. Lectotype designated by Pont 1984: 282.
- confiscata** Speiser, 1924: 104 (*Musca*). N. n. *Musca fasciata* Stein. Muscidae, *Musca confiscata* Speiser.
- confixa** Walker, 1856a: 26 (*Musca*). Mt. Ophir. T ♂ BMNH. Calliphoridae, *Isonomyia confixa* Walker.
- conflagrans** Walker, 1861c: 261 (*Musca*). Sulawesi, Menado. T ♂ BMNH. Calliphoridae, *Isonomyia delectans* Walker.
- confluo** Harris, 1780: 143, pl. 42, fig. 50 (*Musca*). England. T A Unknown. Tachinidae. Name improperly formed (verb).
- conformis** Fallén, 1825: 82 (*Musca*). Sweden, Skåne. LT ♀ NRS. Anthomyiidae, *Pegomya conformis* Fallén. Lectotype designated by Michelsen 1979b: 257.
- confusus** Harris, 1780: 110, pl. 33, fig. 51 (*Musca*). England. T A Unknown. Syrphidae, *Platycheirus granditarsus* Forster.
- congolensis** Villeneuve, 1916: 513 (*Musca*). Zaire. HT ♂ MRAC. Muscidae, *Musca alpea* Walker.
- conica** Gmelin, 1790: 2860 (*Musca*). Europe. T A NMI.
- conica** Panzer, 1798c: 20 (*Musca*). Austria. T ♂ ZMHU. Syrphidae, *Brachyopa panzeri* Goffe. Preocc. Gmelin 1790.
- conica** Fallén, 1825: 83 (*Musca*). Subsequent Usage of *Anthomyia conica* Wiedemann. Anthomyiidae, *Hydrophoria lancifer* Harris.
- connexa** Fabricius, 1794: 350 (*Musca*). France. T A MNHNP. Tephritidae, *Euphranta connexa* Fabricius.
- connexa** Walker, 1853b: 342 (*Musca*). Unknown. T ♀ BMNH. Muscidae, *Neomyia cornicina* Fabricius. Preocc. Fabricius 1794.
- conopsea** Gmelin, 1790: 2868 (*Musca*). Subsequent Usage of *Musca conopsoides* Linnaeus *sensu* Fabricius. Syrphidae, *Doros profuges* Harris.
- conopsoides** Linnaeus, 1758a: 590 (*Musca*). Europe. LT ♂ LSL. Syrphidae, *Ceriana conopsoides* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 153.
- conosoma** Jördens, 1802: 30, pl. 7, fig. 9 (*Ascaris*). Germany, Jena. TL UNKNOWN. Muscidae, *Musca domestica*? Linnaeus.
- consanguinea** Rondani, 1848: 78 (*Musca*). Brazil. T A USB. Muscidae, *Musca domestica* Linnaeus.
- consimilis** Fallén, 1825: 85 (*Musca*). Sweden, Bohuslän. LT ♂ ZIL. Muscidae, *Helina consimilis* Fallén. Lectotype designated by Pont 1984: 282.
- consisto** Harris, 1780: 112, pl. 33, fig. 56 (*Musca*). England. T A Unknown. Syrphidae, *Dasyisyrphus pinastri* De Geer. Name improperly formed (verb).
- consobrinus** Curtis, 1835: 549, pl. 549 (*Musca*). England, Putney. T ♂ MVM. Calliphoridae.
- conspersus** Harris, 1776: 38, pl. 9, fig. 11 (*Musca*). England. T ♀ Unknown. Tachinidae, *Trixa conspersa* Harris.
- consencis** Harris, 1780: 123, pl. 36, fig. 47 (*Musca*). England. T A Unknown. Sepsidae, *Themira putris* Linnaeus.
- constane** Harris, 1780: index (*Musca*). Incosp. *constans* Harris. Muscidae, *Hydrotaea meteorica* Linnaeus.



- constans* Harris, 1780: 149, pl. 43, fig. 75 (*Musca*). England. T ♀ Unknown. Muscidae, *Hydrotaea meteorica* Linnaeus.
- contigua* Fabricius, 1794: 347 (*Musca*). Brazil. T A UZMC.
- contigua* Walker, 1853b: 344 (*Musca*). United States. HT ♀ BMNH. Muscidae, *Musca domestica* Linnaeus. Preocc. Fabricius 1794. See Pont 1990: 164.
- continua* Panzer, 1798c: 19 (*Musca*). Austria. T A ZMHU. Tachinidae, *Clytiomyia continua* Panzer.
- continua* Robineau-Desvoidy, 1863: 628 (*Musca*). France, Nice. T A DESTROY. Muscidae, *Musca autumnalis* De Geer. Preocc. Panzer 1798.
- contracta* Geoffroy, 1785: 491 (*Musca*). Sweden. T A LSL. Syrphidae, *Xylota segnis* Linnaeus.
- convenio* Harris, 1780: 143, pl. 42, fig. 52 (*Musca*). England. T A Unknown. Tachinidae. Name improperly formed (verb).
- convexifrons* Thomson, 1868: 547 (*Musca*). Hong Kong. HT ♂ NRS. Muscidae, *Musca convexifrons* Thomson.
- convolo* Harris, 1780: 143, pl. 42, fig. 49 (*Musca*). England. T A Unknown. Tachinidae.
- corni* Scopoli, 1763: 328 (*Musca*). Carniola. T A DESTROY. Muscidae, *Mydaea corni* Scopoli.
- cornicena* Fabricius, 1794: 317 (*Musca*). Missp. *cornicina* Fabricius. Muscidae, *Neomyia cornicina* Fabricius.
- cornicina* Fabricius, 1781: 438 (*Musca*). Italy. HT A UZMC F. Muscidae, *Neomyia cornicina* Fabricius. See Michelsen 1979a: 183.
- cornuta* Scopoli, 1772: 123 (*Musca*). Idrija. T A Unknown. Tephritidae, *Vidalia cornuta* Scopoli.
- cornuta* Fabricius, 1794: 357 (*Musca*). Germany. T A UZMC F. Tephritidae, *Terellia ceratocera* Hendel. Preocc. Scopoli 1772.
- cornuta* Fabricius, 1805: 298 (*Musca*). Denmark, Sjaelland. HT ♂ UZMC. Muscidae, *Helina setiventris* Ringdahl. Preocc. Scopoli 1772. See Michelsen 1979a: 183.
- corollae* Turton, 1801: 650 (*Musca*). Subsequent Usage of *Syrphus corollae* Fabricius. Syrphidae, *Metasyrphus corollae* Fabricius.
- corrigiolata* Linnaeus, 1767: 995 (*Musca*). S. Europe. T A LSL. Micropezidae, *Micropeza corrigiolata* Linnaeus.
- coruina* Fabricius, 1781: 440 (*Musca*). N. n. *Musca autumnalis* De Geer. Muscidae, *Musca autumnalis* De Geer. See Michelsen 1979a: 184.
- corvina* Fabricius, 1794: 320 (*Musca*). Missp. *coruina* Fabricius. Muscidae, *Musca autumnalis* De Geer.
- corvinoides* Schnabl & Dziedzicki, 1911: 180 (*Musca*). *Nomen nudum*. Muscidae, *Musca larvipara* Portschinsky. Published in synonymy, not subsequently validated by usage.
- corydon* Harris, 1782: index (*Musca*). Missp. *corydon* Harris. Syrphidae, *Cheilosia corydon* Harris.
- corydon* Harris, 1780: 106, pl. 32, fig. 36 (*Musca*). England. T A Unknown. Syrphidae, *Cheilosia corydon* Harris.
- coryleti* Scopoli, 1763: 336 (*Musca*). Carniola. T A DESTROY. Sciomyzidae, *Pherbina coryleti* Scopoli.
- coryletti* Sherborn, 1902: 251 (*Musca*). Missp. *coryleti* Scopoli. Sciomyzidae, *Pherbina coryleti* Scopoli.

- coryli* Rossi, 1794: 72, pl. 3, fig. 1 (*Musca*). Italy. T A ZMHU. Tephritidae, *Aciura coryli* Rossi.
- cossenico* Harris, 1780: 74 (*Musca*). Incomp. *consensicis* Harris. Sepsidae, *Themira putris* Linnaeus. Name status by present revision.
- costalis* Fabricius, 1794: 360 (*Musca*). West Indies. T A UZMC F. Otitidae, *Euxesta costalis* Fabricius.
- costalis* Walker, 1853a: 344 (*Musca*). South America. T ♀ BMNH. Tachinidae, *Myiopharus* sp. Preocc. Fabricius 1794.
- costalis* Walker, 1860: 159 (*Musca*). Moluccas, Amboina. HT ♂ BMNH. Calliphoridae, *Stilbomyella gloriosa* Walker. Preocc. Fabricius 1794. See Crosskey 1965: 95.
- costata* Linnaeus, 1767: 226 (*Musca*). Europe. T A UNKNOWN.
- costata* Panzer, 1800: 23 (*Musca*). Germany. T A ZMHU. Tachinidae, *Gymnosoma intermedium* Loew. Preocc. Linnaeus 1767.
- cothurnata* Panzer, 1798a: 20 (*Musca*). Austria. T ♂ ZMHU. Micropezidae, *Compso-bata cibaria* Linnaeus.
- crabroniformis* de Villers, 1789a: 428 (*Musca*). France, Cevennes. T A Author. Syrphidae, *Milesia crabroniformis* de Villers.
- craggi* Patton, 1922: 75 (*Musca*). India, Kerala, Nilambur District. ST A BMNH. Muscidae, *Musca craggi* Patton. See Pont 1990: 164.
- crassa* Gmelin, 1790: 2867 (*Musca*). Subsequent Usage of *Syrphus crassus* Fabricius. Syrphidae, *Phytomia crassa* Fabricius.
- crassa* Wiedemann, 1830: 387 (*Musca*). Brazil. HT ♂ ZMHU. Tachinidae, *Chaetotheresia crassa* Wiedemann. See Townsend 1931a: 102.
- crassicornis* Fabricius, 1794: 328 (*Musca*). West Indies. T A UZMC F. Tachinidae, *Gonia crassicornis* Fabricius.
- crassipennis* Fabricius, 1794: 357 (*Musca*). Germany. T A UZMC F. Otitidae, *Meliera crassipennis* Fabricius.
- crassipennis* Lamarck, 1816: 363 (*Musca*). Subsequent Usage of *Syrphus crassipennis* Fabricius. Tachinidae, *Ectophasia crassipennis* Fabricius.
- crassipes* Schrank, 1781: 450 (*Musca*). Austria, Linz. T A Unknown. Syrphidae, *Merodon crassipes* Schrank.
- crassipes* Gmelin, 1790: 2860 (*Musca*). Europe. T A NMI. Preocc. Schrank 1781.
- crassirostris* Stein, 1903: 99 (*Musca*). Egypt, Luxor, Cairo & Assuan. ST ♂ ♀ ZMHU. Muscidae, *Musca crassirostris* Stein.
- crassiseta* Ratzeburg, 1844: 174 (*Musca*). Germany. T A Unknown. Tachinidae, *Masicera sphingivora* Robineau-Desvoidy.
- crax* Turton, 1801: 621 (*Musca*). N. n. *Musca crux* Fabricius. Tephritidae, *Euphranta crux* Fabricius.
- cribrata* de Villers, 1789a: 547, pl. 10, fig. 7 (*Musca*). Bressia [= Bresse, France]. T A Author. Sciomyzidae, *Coremacera marginata* Fabricius. N. Syn.
- cristata* Fabricius, 1775: 782 (*Musca*). England. T A UZMC F. Rhagionidae, *Chrysopilus cristatus* Fabricius.
- cristata* Fabricius, 1794: 339 (*Musca*). Barbaria. T A MNHNP. Anthomyiidae? Preocc. Fabricius 1775. Type figured by Coquebert (1804: 109).
- crocus* Harris, 1780: 118, pl. 34, fig. 27 (*Musca*). England. T A Unknown. Sciomyzidae, *Ilione albiseta* Scopoli.
- cruciata* Geoffroy, 1785: 499 (*Musca*). France, Paris. T A Author.

- crucis* Gmelin, 1790: 2834 (*Musca*). Subsequent Usage of *Stratiomys crucis* Fabricius. Xylophagidae, *Coenomyia ferruginea* Scopoli.
- cruentata* Geoffroy, 1785: 487 (*Musca*). France, Paris. T A Author. Syrphidae, *Paragus cruentatus* Geoffroy.
- crux* Fabricius, 1794: 358 (*Musca*). India Orientali. T A UZMC. Tephritidae, *Euphranta crux* Fabricius.
- cryptarum* Turton, 1801: 640 (*Musca*). Subsequent Usage of *Syrphus cryptarum* Fabricius. Syrphidae, *Eristalis cryptarum* Fabricius.
- culcularia* Linnaeus, 1767: 995 (*Musca*). Sweden. T A LSL. Sciomyzidae, *Elgiva culcularia* Linnaeus. 1 sp. in LSL (Dear MS).
- cupraria* Linnaeus, 1758a: 598 (*Musca*). Europe. T A LSL. Stratiomyidae, *Sargus cuprarius* Linnaeus. 3 sp. in LSL (Dear MS).
- cupraria* Geoffroy, 1785: 491 (*Musca*). Subsequent Usage of *Musca cupraria* Linnaeus. Stratiomyidae, *Sargus cuprarius* Linnaeus.
- cuprea* Geoffroy, 1785: 489 (*Musca*). France, Paris. T A Author.
- cuprea* Macquart, 1835: 268 (*Musca*). France, Bordeaux. T ♀ Lost? Muscidae, *Musca tempestiva* Fallén. Preocc. Geoffroy 1785. Types not found in MNHNP nor MHNL (Pont).
- cuprea* Walker, 1853b: 331 (*Musca*). South Australia. HT ♀ BMNH. Calliphoridae, *Metallea incisuralis* Macquart. Preocc. Geoffroy 1785. See Dear 1977: 821.
- cuprina* Wiedemann, 1830: 654 (*Musca*). China. T A UZMC. Calliphoridae, *Lucilia cuprina* Wiedemann.
- cursitans* Fabricius, 1775: 782 (*Musca*). England. T A UZMC F. Empididae, *Platypalpus cursitans* Fabricius.
- cursoria* Scopoli, 1763: 338 (*Musca*). Carniola. T A DESTROY. Empididae, *Tachypeza nubila*? Meigen.
- curviforceps* Saccà & Rivosecchi, 1956a: 497 (*Musca*, as *domestica* spp.). Tanzania, Arusha. ST ♂ ♀ ISS. Muscidae, *Musca curviforceps* Saccà & Rivosecchi.
- curvinervis* Zetterstedt, 1845: 1350 (*Musca*). Muscidae, *Musca tempestiva* Fallén. Published in synonymy, not subsequently validated by usage. A Bouché manuscript name.
- curvipes* Gmelin, 1790: 2871 (*Musca*). N. n. *Syrphus clavipes* Fabricius. Syrphidae, *Merodon clavipes* Fabricius.
- curvipes* Fallén, 1825: 90 (*Musca*). Sweden, Skåne. HT ♂ ZIL. Muscidae, *Hydrotaea meridionalis* Portschinsky. Preocc. Gmelin 1790. See Pont 1984: 282.
- cuthbertsoni* Patton, 1936: 470, fig. 2 (*Musca*). Zimbabwe, Salisbury. LT ♂ BMNH. Muscidae, *Musca calleva* Walker. Lectotype designated by Pont 1990: 164.
- cyanea* Müller, 1764: 85 (*Musca*). Denmark, Sjaelland, Frederiksdal. T A DESTROY. Syrphidae, *Platycheirus cyaneus* Müller.
- cyanea* Fabricius, 1781: 439 (*Musca*). South Africa, Cape of Good Hope. T A DESTROY. Muscidae, *Neomyia peronii* Robineau-Desvoidy. Preocc. Müller 1764. See Townsend 1931c: 369; Michelsen 1979a: 184.
- cyanella* Meigen, 1826: 77 (*Musca*). Germany, probably Stolberg. LT ♀ MNHNP. Muscidae, *Eudasyphora cyanella* Meigen. Lectotype designated by Pont 1986b: 219.
- cyanophthalma* Gmelin, 1790: 2863 (*Musca*). N. n. *Musca annulata* Schrank.
- cylindracea* Gmelin, 1790: 2873 (*Musca*). N. n. *Syrphus cylindricus* Fabricius. Syrphidae, *Ocyptamus cylindricus* Fabricius.

- cylindrica* De Geer, 1776: 30, pl. 1, fig. 12 (*Musca*). Sweden. T A NRS. Tachinidae, *Cylindromyia brassicaria* Fabricius.
- cylindrica* Gmelin, 1790: 2860 (*Musca*). Europe. T A NMI. Preocc. De Geer 1776.
- cylindrica* Fabricius, 1794: 336 (*Musca*). Germany. T A UZMC F. Sepsidae, *Nemopoda nitidula* Fallén. Preocc. De Geer 1776.
- cylindrica* Fallén, 1817: 242 (*Musca*). Sweden, Skåne. T A NRS. Tachinidae, *Phylomyia volvulus* Fabricius. Preocc. De Geer 1776.
- cylindricornis* Fabricius, 1794: 332 (*Musca*). France. T A MNHNP. Lauxaniidae, *Lauxania cylindricornis* Fabricius.
- cylindricus* Fabricius, 1781: 429 (*Syrphus*). West Indies. T A UZMC F. Syrphidae, *Ocyptamus cylindricus* Fabricius.
- cynipsea* Linnaeus, 1758a: 599 (*Musca*). Europe. T A LSL. Sepsidae, *Sepsis cynipsea* Linnaeus. 2 sp. in LSL (Dear MS).
- cynophila* Panzer, 1794c: 22 (*Musca*). Germany, Mannheim. T A ZMHU. Piophilidae, *Thyreophora cynophila* Panzer.
- dasyops* Stein, 1913: 468 (*Musca*). Tanzania, Kilimanjaro. ST ♀ ZMHU. Muscidae, *Musca dasyops* Stein.
- dauci* Fabricius, 1787: 353 (*Musca*). Sweden. T A UZMC F. Tephritidae, *Urophora solstitialis* Linnaeus.
- dawsoni* Rainbow, 1897: 97 (*Degeeria*). Ellice Is., Funafuti Atoll, Tuvalu. LT ♂ AMS. Muscidae, *Musca domestica* Linnaeus. Lectotype designated by Pont 1968: 89.
- deceptor* Poda, 1761: 116 (*Musca*). Austria, Graz. T A Unknown. Tachinidae, *Clytiomyia pellucens?* Fallén.
- decolor* Fallén, 1824: 68 (*Musca*). Sweden, Skåne. LT ♀ NRS. Muscidae, *Drymeia vicana* Harris. Lectotype designated by Pont 1984: 282.
- decure* Harris, 1780: 146, pl. 43, fig. 63 (*Musca*). England. T A Unknown. Anthomyiidae. Name improperly formed (adverb).
- deduco* Harris, 1780: 125, pl. 36, fig. 54 (*Musca*). England. T ♀ Unknown. Muscidae, *Helina sexmaculata* Preyssler. Name improperly formed (verb).
- deduco* Harris, 1780: 120, pl. 35, fig. 34 (*Musca*). England. T A Unknown. Lauxaniidae. Name improperly formed (verb).
- defixa* Walker, 1856a: 24 (*Musca*). Singapore. T ♂ BMNH. Calliphoridae, *Chrysomya defixa* Walker.
- degener* Haliday, 1833: 165 (*Musca*). Ireland, Down, Holywood. T A NMI. Calliphoridae, *Pollenia degener* Haliday.
- dejectus* Harris, 1780: 120, pl. 35, fig. 38 (*Musca*). England. T A Unknown. Heleomyzidae.
- delectans* Walker, 1859b: 134 (*Musca*). Sulawesi, Makasar. ST ♀ BMNH. Calliphoridae, *Isomyia delectans* Walker. HT not found by Townsend 1931c: 376, but 2 STs are in BMNH.
- delicate* Harris, 1780: 118, pl. 34, fig. 26 (*Musca*). England. T A Unknown. Sciomyzidae.
- demandata* Fabricius, 1798: 564 (*Musca*). Germany, Kiel. T A UZMC F. Otitidae, *Physiphora alceae* Preyssler.
- demano* Harris, 1780: 74 (*Musca*). Incosp. *dimano* Harris. Tachinidae, *Eriothrix rufomaculata* De Geer. Name status by present revision.



- denigrata* Linnaeus, 1767: 981 (*Musca*). Europe. T A LSL. Bombyliidae, *Hemipenthes maurus* Linnaeus. 1 sp. in LSL (Dear MS).
- dentipes* Gmelin, 1790: 2877 (*Musca*). Subsequent Usage of *Syrphus dentipes* Fabricius. Syrphidae, *Senogaster dentipes* Fabricius.
- dentipes** Fabricius, 1805: 303 (*Musca*). Denmark. T A DESTROY. Muscidae, *Hydrotaea dentipes* Fabricius. See Michelsen 1979a: 185.
- depressa* Swederus, 1787: 287 (*Musca*). USSR, Kamchatka. T A BMNH B. Syrphidae, *Leucozona glaucia* Linnaeus.
- depressa* de Villers, 1789a: 548 (*Musca*). Bressia [= Bresse, France]. T A Author. Preocc. Swederus 1787.
- depressa* Gmelin, 1790: 2861 (*Musca*). Europe. T A NMI. Preocc. Swederus 1787.
- depressa* Panzer, 1804: 191 (*Musca*). Germany, Regensburg. T A Unknown. Preocc. Swederus 1787.
- depressa* Meigen, 1826: 67 (*Musca*). Austria & Germany, Berlin & Hamburg. LT ♀ MNHNP. Calliphoridae, *Pollenia labialis* Robineau-Desvoidy. Preocc. Swederus 1787. Lectotype designated by Rognes 1991a: 228.
- depuncta** Fallén, 1825: 80 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Helina depuncta* Fallén. Lectotype designated by Pont 1984: 283.
- despecta** Gmelin, 1790: 2861 (*Musca*). Europe. T A NMI.
- determinata* Walker, 1853b: 345 (*Musca*). East Indies. HT ♀ BMNH. Muscidae, *Musca domestica* Linnaeus. See Pont 1990: 164.
- devia* Linnaeus, 1761: 446 (*Musca*). Sweden. T A Lost. Syrphidae, *Microdon devia* Linnaeus. See Thompson *et al.* 1982: 153.
- dexter** Harris, 1780: 108, pl. 32, fig. 46 (*Musca*). England. T A Unknown. Syrphidae, *Platycheirus dexter* Harris.
- diabolus** Harris, 1780: 126, pl. 36, fig. 58 (*Musca*). England. T ♂ Unknown. Muscidae, *Hydrotaea diabolus* Harris.
- diadema** Linnaeus, 1767: 982 (*Musca*). Europe. T A LSL. Dolichopodidae, *Medetera diadema* Linnaeus. 1 sp. in LSL (Dear MS).
- diaphana** Fabricius, 1775: 783 (*Musca*). Germany, Leipzig. T A UZMC F. Dolichopodidae, *Argyra diaphana* Fabricius.
- diaphana* Fallén, 1825: 92 (*Musca*). Subsequent Usage of *Anthomyia diaphana* Wiedemann. Muscidae, *Thricops diaphanus* Wiedemann.
- diaphana* Townsend, 1931b: 157 (*Musca*). Subsequent Usage of *Tachina diaphana* Fabricius. Tachinidae, *Archytas diaphana* Fabricius.
- dichotoma* Bezzi, 1911: 93 (*Musca*). Mozambique, Umbeluzi. HT ♀ USNM. Muscidae, *Musca sorbens* Wiedemann.
- diffidens** Walker, 1856a: 26 (*Musca*). Singapore. T ♂ BMNH. Muscidae, *Neomyia diffidens* Walker.
- diffusa* Walker, 1861d: 290 (*Musca*). Sulawesi, Batchian. HT ♂ BMNH. Calliphoridae, *Stilbomyella gloriosa* Walker. See Crosskey 1965: 95.
- dilecta** Wiedemann, 1830: 419 (*Musca*). Brazil. HT ♂ NMW. Tachinidae, *Medinophyto dilecta* Wiedemann. See Aldrich 1929: 19; Townsend 1931a: 93.
- dimano* Harris, 1780: 142, pl. 42, fig. 46 (*Musca*). England. T A Unknown. Tachinidae, *Eriothrix rufomaculata* De Geer. Name improperly formed (verb).
- dimidiata* Panzer, 1798c: 17 (*Musca*). Austria. T A ZMHU. Tachinidae, *Phasia crassipennis* Fabricius.

- dioclea** Walker, 1849: 869 (*Musca*). Borneo. T ♀ BMNH. Calliphoridae, *Phumosia dioclea* Walker. N. Comb.
- diophthalma** Linnaeus, 1758a: 593 (*Musca*). Sweden. LT ♂ LSL. Syrphidae, *Spilomyia diophthalma* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 154.
- dirae** Harris, 1780: 112, pl. 33, fig. 57 (*Musca*). England. T A Unknown. Syrphidae, *Pipiza lugubris* Fabricius.
- discoidea** Fabricius, 1787: 351 (*Musca*). Denmark, Copenhagen. T A UZMC. Tephritidae, *Platyparea discoidea* Fabricius.
- discolor** Linnaeus, 1758a: 592 (*Musca*). *Nomen nudum*. Muscidae, *Mesembrina mystacea* Linnaeus. Published in synonymy, not subsequently validated by usage. Mentioned under *M. intricaria*. See Pont 1981: 172.
- discolor** Fabricius, 1794: 320 (*Musca*). India Orientali. HT ♀ UZMC. Calliphoridae, *Stomorhina discolor* Fabricius. See Dear 1977: 792.
- dispar** Turton, 1801: 651 (*Musca*). Subsequent Usage of *Syrphus dispar* Fabricius. Syrphidae, *Toxomerus dispar* Fabricius.
- dispar** Fallén, 1823: 58 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Spilogona dispar* Fallén. Lectotype designated by Pont 1984: 283.
- distincta** Walker, 1853b: 346 (*Musca*). Senegal? T ♀ BMNH. Muscidae, *Pyrellina distincta* Walker.
- ditissima** Walker, 1861b: 244 (*Musca*). New Guinea, Dorey. T ♂ BMNH. Calliphoridae, *Isomyia ditissima* Walker.
- divaricata** Geoffroy, 1785: 495 (*Musca*). France, Paris. T A Author.
- divaricata** Awati, 1916b: 138 (*Musca*). India. ST ♀ CRIC. Muscidae, *Musca domestica* Linnaeus. Preocc. Geoffroy 1785.
- divisa** Walker, 1853b: 333 (*Musca*). East Indies. T ♀ BMNH. Calliphoridae, *Rhyncomya divisa* Walker.
- divisa** Meigen, 1975: 419, pl. 119, fig. 11 (*Musca*, as *domestica* var.). *Nomen nudum*. [Germany, probably Stolberg]. Muscidae, *Musca domestica* Linnaeus. Varietal name proposed after 1960.
- dizonias** Gmelin, 1790: 2880 (*Musca*). N. n. *Musca bifasciata* Schrank. Syrphidae, *Neosciasc annexa* Müller.
- doclea** Walker, 1849: 904 (*Musca*). Unknown. T ♀ DESTROY.
- dolens** Zetterstedt, 1837: 42 (*Musca*). *Nomen nudum*. [Sweden, Torne Lappmark, Torneträsk]. T ♂ ZIL. Calliphoridae, *Bellardia pubicornis* Zetterstedt.
- dolens** Zetterstedt, 1838: 654 (*Musca*). Sweden, Torne Lappmark, Torneträsk. HT ♂ ZIL. Calliphoridae, *Bellardia pubicornis* Zetterstedt. See Rognes 1991a: 51.
- doliata** Geoffroy, 1785: 487 (*Musca*). France, Paris. T A Author.
- domestica** Linnaeus, 1758a: 596 (*Musca*). Europe & America. T A DESTROY. Muscidae, *Musca domestica* Linnaeus. See Pont 1981: 168.
- domestica** major De Geer, 1776: 71, pl. 4, fig. 1 (*Musca*). *Nomen nudum*. N. n. *Musca domestica* Linnaeus. Muscidae, *Musca domestica* Linnaeus. Not available; poly-nominal, not binominal.
- domitor** Harris, 1780: 148, pl. 43, fig. 71 (*Musca*). England. T ♀ Unknown. Muscidae, *Polietes domitor* Harris.
- donyisa** Walker, 1849: 886 (*Musca*). Australia. HT ♀ BMNH. Muscidae, *Neomyia australis* Macquart. See Pont 1973: 203.

- doronici** Scopoli, 1763: 333 (*Musca*). Carniola. T A DESTROY. Calliphoridae, *Morinia doronici* Scopoli. N. Status
- dorsalis** Fabricius, 1775: 786 (*Musca*). Czechoslovakia, Bohemia. T A UZMC F. Sciomyzidae, *Hydromya dorsalis* Fabricius.
- dorsalis** Walker, 1849: 907 (*Musca*). Australia. T A BMNH. Calliphoridae, *Calliphora augur* Fabricius. Preocc. Fabricius 1775.
- dorsomaculata** Macquart, 1843: 309 (*Musca*). Mauritius. LT ♂ MNHNP. Muscidae, *Musca xanthomelaena* Wiedemann. Lectotype designated by Pont & Matile 1976: 744.
- dotata** Walker, 1856a: 25 (*Musca*). Singapore. T ♂ BMNH. Calliphoridae, *Isomyia dotata* Walker.
- dubia** Fallén, 1825: 84 (*Musca*). *Nomen nudum*. Sweden. T A NRS. Anthomyiidae, *Delia* sp. Published without diagnosis or indication. Mentioned in comparison with *Delia coarctata*.
- dubia** Walker, 1853b: 344 (*Musca*). South Australia. T ♂ BMNH. Calliphoridae, *Aphyssura dubia* Walker.
- dubitata** Fallén, 1825: 82 (*Musca*). Sweden, Skåne. HT ♀ ZIL. Anthomyiidae, *Hydrophoria lancifer* Harris. See Michelsen 1983: 112.
- duplicata** Geoffroy, 1785: 471 (*Musca*). France, Paris. T A Author.
- dux** Eschscholtz, 1822: 114 (*Musca*). Guam. T A Unknown. Calliphoridae, *Chrysomya megacephala* Fabricius.
- efflatouni** Salem & El-Sherif, 1960: 171, fig. 1 (*Musca*). Egypt, Gebel Elba. HT ♂ HIPHA. Muscidae, *Musca sorbens* Wiedemann.
- elara** Walker, 1849: 870 (*Musca*). South Africa. T ♀ BMNH. Calliphoridae, *Chrysomya albiceps* Wiedemann.
- elata** Fabricius, 1781: 441 (*Musca*). Germany, Kiel. T A UZMC F. Sciomyzidae, *Tetanocera elata* Fabricius.
- elater** Sherborn, 1902: 321 (*Musca*). missp. *elata* Fabricius. Sciomyzidae, *Tetanocera elata* Fabricius.
- elator** Villeneuve, 1937: 4 (*Musca*). Zaire, Lulenga, Mission Rugari. HT ♀ MRAC. Muscidae, *Musca elator* Villeneuve.
- electa** Walker, 1859b: 136 (*Musca*). Sulawesi, Makassar. LT ♂ BMNH. Muscidae, *Neomyia sperata* Walker. Lectotype designated by Pont 1966: 92.
- elegans** Harris, 1782: index (*Musca*). Missp. *eligans* Harris. Syrphidae, *Epistrophe eligans* Harris.
- elegans** de Villers, 1789a: 464, pl. 9, fig. 27 (*Musca*). Southern France. T A Author. Syrphidae, *Episyrphus cannabina* Scopoli.
- elephantopus** Gmelin, 1790: 2880 (*Musca*). N. n. *Musca crassipes* Schrank. Syrphidae, *Merodon crassipes* Schrank.
- elevata** Fabricius, 1805: 303 (*Musca*). Nova Cambria [= Tasmania, southern tip]. T A Lost. Lauxaniidae, *Ceratolauxania elevata* Fabricius. See Evenhuis 1988: 193.
- eligans** Harris, 1780: 105 (*Musca*). England. T A Unknown. Syrphidae, *Epistrophe eligans* Harris.
- elongata** Müller, 1764: 85 (*Musca*). Denmark, Sjaelland, Frederiksdal. T A Author. Sepsidae, *Sepsis cynipsea* Linnaeus. See Thompson 1981b: 472.
- elongata** Fabricius, 1787: 348 (*Musca*). Sierra Leone. T A UZMC F. Stratiomyidae, *Ptecticus posticus* Wiedemann. Preocc. Müller 1764. N. Syn.
- elongata** de Villers, 1789a: 549 (*Musca*). Europe. T A Author. Preocc. Müller 1764.

- elongata* Fabricius, 1794: 338 (*Musca*). South America. T A UZMC. Stratiomyidae, *Ptecticus testaceus* Fabricius. Preocc. Müller 1764.
- elongata* Schrank, 1803: 108 (*Musca*). Subsequent Usage of *Syrphus elongatus* Fabricius. Syrphidae, *Baccha elongata* Fabricius.
- emoda* Walker, 1849: 872 (*Musca*). Egypt. T ♀ BMNH. Calliphoridae, *Chrysomya albiceps* Wiedemann.
- ephippium* Gmelin, 1790: 2834 (*Musca*). Subsequent Usage of *Stratiomys ephippium* Fabricius. Stratiomyidae, *Clitellaria ephippium* Fabricius.
- ephippium* Fabricius, 1794: 338 (*Musca*). France. T A BMNH. Micropezidae, *Neria ephippium* Fabricius.
- ephippium* Walckenaer, 1802: 397 (*Musca*). France, Paris. Micropezidae, *Neria ephippium* Fabricius. Probably the lack of attribution to Fabricius was an error.
- equestris* Fabricius, 1775: 782 (*Musca*). Brazil. T A BMNH B. Dolichopodidae.
- equestris* Meigen, 1826: 57 (*Musca*). Germany. HT ♂ NMW. Calliphoridae, *Lucilia illustris* Meigen. Preocc. Fabricius 1775. See Collin 1926: 259.
- ericetorum* Gmelin, 1790: 2870 (*Musca*). Subsequent Usage of *Syrphus ericetorum* Fabricius. Syrphidae, *Asarkina ericetorum* Fabricius.
- erinacea* Fallén, 1824: 65 (*Musca*). Sweden, Småland. LT ♂ NRS. Muscidae, *Phaonia angulicornis* Zetterstedt. Preocc. Fabricius 1794. Lectotype designated by Pont 1984: 283.
- erinaceus* Fabricius, 1794: 328 (*Musca*). Denmark, Copenhagen. T A UZMC. Tachinidae, *Peteina erinaceus* Fabricius.
- eristoloides* Walker, 1858b: 106 (*Musca*). Moluccas, Aru Islands. T A BMNH. Calliphoridae, *Euphunosia eristoloides* Walker. ST also in UMO (*teste* Pont).
- errans* Gmelin, 1790: 2872 (*Musca*). Subsequent Usage of *Syrphus errans* Fabricius. Syrphidae, *Phytomia errans* Fabricius.
- erratica* Linnaeus, 1758a: 593 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Eriozona erratica* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 154.
- erratica* Scopoli, 1763: 345 (*Musca*). Carniola. T A DESTROY. Syrphidae, *Pipiza noctiluca* Linnaeus. Preocc. Linnaeus 1758.
- erratica* Panzer, 1804: 53 (*Musca*). Germany, Regensburg. T A Unknown. Preocc. Linnaeus 1758.
- erratica* Fallén, 1825: 77 (*Musca*). Sweden, Bäckaskog or Äsperöd. LT ♂ NRS. Muscidae, *Phaonia errans* Meigen. Preocc. Linnaeus 1758. Lectotype designated by Pont 1984: 284.
- erro* Harris, 1780: 123, pl. 36, fig. 48 (*Musca*). *Nomen nudum*. England. T A Unknown. Chloropidae. Name improperly formed (verb).
- erucarum* Schrank, 1803: 119 (*Musca*). N. n. *Musca larvarum major* De Geer. Tachinidae, *Tachina larvarum* Linnaeus.
- erythrocephala* De Geer, 1776: 146, pl. 29, fig. 2 (*Musca*). Surinam. LT ♀ NRS. Calliphoridae, *Cochliomyia macellaria* Fabricius. Lectotype designated by Thompson 1973: 356.
- erythrocephala* Fabricius, 1787: 351 (*Musca*). Sweden. T A UZMC F. Preocc. De Geer 1776.
- erythrocephala* de Villers, 1789b: cxxxvii (*Musca*). N. n. *Musca viridescens* de Villers [1789b: 548]. Tephritidae. Preocc. De Geer 1776.



- erythrocephala* Meigen, 1826: 62 (*Musca*). Germany. LT ♂ MNHNP. Calliphoridae, *Calliphora vicina* Robineau-Desvoidy. Preocc. De Geer 1776. Lectotype designated by Rognes 1991a: 68.
- erythroptialma* Panzer, 1794a: 24 (*Musca*). Germany, Brunswick. T A ZMHU. Drosophilidae, *Drosophila funebris*? Fabricius. Type(s) not found (Bächli, *in litt.*).
- esuriens* Turton, 1801: 638 (*Musca*). Subsequent Usage of *Syrphus esuriens* Fabricius. Syrphidae, *Copestylum brunneum* Thunberg.
- esuriens* Fabricius, 1805: 301 (*Musca*). South America. HT ♂ UZMC. Tachinidae, *Iteuthelaira esuriens* Fabricius. See Townsend 1931b: 170.
- esuriens*, Townsend, 1931b: 176 (*Musca*). Misid. *esuriens* by Brauer & Bergenstamm & Aldrich. Tachinidae, *Belvosia aldrichi* Townsend.
- ethiopia* Zielke, 1973: 365 (*Musca*). Ethiopia, The Divide, NW of Addis Adaba. HT ♀ CNC. Muscidae, *Musca ethiopia* Zielke.
- eustolia* Walker, 1849: 909 (*Musca*). Sierra Leone. T ♂ BMNH. Muscidae, *Graphomya eustolia* Walker.
- eutaeniata* Bigot, 1888: 605 (*Musca*). Vietnam, Saigon. LT ♂ BMNH. Muscidae, *Musca sorbens* Wiedemann. Lectotype designated by Pont 1990: 165.
- evectus* Harris, 1780: 125, pl. 36, fig. 55 (*Musca*). England. T ♀ Unknown. Muscidae, *Helina evecta* Harris.
- evonymellae* Ratzeburg, 1844: 172 (*Musca*). Germany. T A UNKNOWN. Tachinidae, *Bactromyia aurulenta* Meigen.
- exactus* Harris, 1780: 147, pl. 43, fig. 70 (*Musca*). England. T A Unknown. Anthomyiidae.
- exalbida* Stein, 1913: 467 (*Musca*). "Cap". T ♂ NMW. Muscidae, *Musca sorbens* Wiedemann. Published in synonymy, not subsequently validated by usage. A male specimen in NMW.
- excors* Harris, 1780: 154, pl. 45, fig. 90 (*Musca*). England. T A Unknown. Anthomyiidae.
- exempta* Walker, 1856b: 128 (*Musca*). Borneo, Sarawak. T ♀ BMNH. Calliphoridae, *Chlororhinia exempta* Walker.
- exilis* Harris, 1780: 122, pl. 36, fig. 44 (*Musca*). England. T A Unknown. Anthomyiidae. Preocc. Harris 1780: 117.
- exilis* Harris, 1780: 117, pl. 34, fig. 24 (*Musca*). England. T A Unknown. Scathophagidae, *Scathophaga stercoraria* Linnaeus.
- eximia* Wiedemann, 1819b: 53 (*Musca*). Brazil. T A NMW. Calliphoridae, *Lucilia eximia* Wiedemann.
- exinanita* Gmelin, 1790: 2867 (*Musca*). N. n. *Syrphus inanis* Fabricius. Syrphidae, *Copestylum brunneum* Thunberg.
- extenuata* Rossi, 1790: 312 (*Musca*). Italy, Tuscany, Firenze & Pisa. T A ZMHU. Psilidae, *Chyliza extenuata* Rossi.
- extranea* Stephens, 1829b: 306 (*Musca*). England. Muscidae, *Phaonia tuguriorum* Scopoli. Published in synonymy, not subsequently validated by usage. Published in synonymy with *signata* Meigen.
- extrema* Walker, 1853b: 348 (*Musca*). Tasmania. HT ♀ BMNH. Muscidae, *Pyrellia tasmaniae* Macquart. See Pont 1973: 212.
- fabricii* Steyskal, 1968: 9 (*Hoplocheiloma*). N. n. *Musca fasciata* Fabricius. Micropezidae, *Hoplocheiloma totliana* Gmelin. N. Syn.

- facultas* Harris, 1780: 109, pl. 33, fig. 49 (*Musca*). England. T A Unknown. Syrphidae, *Melanostoma mellinum* Linnaeus.
- falcata* Scopoli, 1763: 330 (*Musca*). Carniola. T A DESTROY. Tephritidae, *Orellia falcata* Scopoli.
- fallax* Linnaeus, 1758a: 592 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Blera fallax* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 154.
- fallax* Geoffroy, 1785: 496 (*Musca*). France, Paris. T A Author. Preocc. Linnaeus 1758.
- familiaris* Panzer, 1804: 208 (*Musca*). Germany, Regensburg. T A Unknown.
- familiaris* Harris, 1869: 336 (*Musca*). Massachusetts. ST A MCZ. Calliphoridae, *Pollenia rudis* Fabricius. Preocc. Panzer 1804. See Rognes, 1987b: 498.
- fasciata* Müller, 1764: 85 (*Musca*). Denmark, Sjaelland, Frederiksdal. T A Author. Syrphidae, *Chrysotoxum fasciatum* Müller.
- fasciata* Fabricius, 1775: 781 (*Musca*). America, West Indies. T A Auction. Micropezidae, *Hoplocheiloma totliana* Gmelin. Preocc. Müller 1764. Type(s) originally in collection of Otto Thott.
- fasciata* de Villers, 1789a: 419 (*Musca*). Subsequent Usage of *Nemotelus fasciata* De Geer. Therevidae, *Thereva plebeja* Linnaeus.
- fasciata* Fabricius, 1805: 299 (*Musca*). Guinea. HT ♂ UZMC. Tachinidae, *Bogosiella pomeroyi* Villeneuve. Preocc. Müller 1764. See Townsend 1931c: 388.
- fasciata* Walker, 1853b: 337 (*Musca*). Brazil. T ♀ BMNH. Calliphoridae, *Cochliomyia macellaria* Fabricius. Preocc. Müller 1764.
- fasciata* Stein, 1910: 149 (*Musca*). Seychelles, Mahé. LT ♂ BMNH. Muscidae, *Musca confiscata* Speiser. Preocc. Müller 1764. Lectotype designated by Pont 1990: 165.
- fasciatus* Fabricius, 1779: 233 (*Rhagio*). Norway. T A UZMC F. Rhagionidae.
- fasciolata* De Geer, 1776: 124, pl. 7, fig. 14 (*Musca*). Sweden. T A NRS. Syrphidae, *Chrysotoxum fasciolatum* De Geer.
- favillacea* Walker, 1859b: 135 (*Musca*). Sulawesi, Makassar. HT ♀ BMNH. Calliphoridae, *Bengalia ieiuna* Fabricius. See Townsend 1931c: 371.
- felina* Fabricius, 1794: 317 (*Musca*). New Castilia [= Castilla la Nueva, Spain]. T A UZMC F. Calliphoridae, *Rhyncomya felina* Fabricius.
- felix* Walker, 1853b: 338 (*Musca*). Canary Islands. T ♂ BMNH. Calliphoridae, *Chrysomya albiceps* Wiedemann. N. Syn.
- femorata* Linnaeus, 1758a: 595 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Chalcosyrphus femoratus* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 154.
- femorata* Panzer, 1794b: 24 (*Musca*). Germany, Dresden. T ♀ ZMHU. Syrphidae, *Lejops lineatus* Fabricius. Preocc. Linnaeus 1758.
- fenestralis* Linnaeus, 1758a: 597 (*Musca*). Europe. T A LSL. Scenopinidae, *Scenopinus fenestralis* Linnaeus. 1 sp. in LSL (Dear MS).
- fera* Linnaeus, 1761: 453 (*Musca*). Sweden. T A LSL. Tachinidae, *Tachina fera* Linnaeus. 5 sp. in LSL (Dear MS).
- fergusoni* Johnston & Bancroft, 1920a: 201 (*Musca*). Australia, Queensland, Eidsvold, Upper Burnett River. LT ♂ QMB. Muscidae, *Musca fergusoni* Johnston & Bancroft. Lectotype designated by Pont 1973: 140.
- ferina* Fallén, 1817: 242 (*Musca*). Sweden, Västergötland. T A NRS. Tachinidae, *Dinera ferina* Fallén.

- ferruginea** Scopoli, 1763: 340 (*Musca*). Carniola. T A DESTROY. Xylophagidae, *Coenomyia ferruginea* Scopoli.
- ferruginea** Fabricius, 1794: 342 (*Musca*). India Orientali. T A UZMC F. Tephritidae, *Bactrocera dorsalis* Hendel. Preocc. Scopoli 1763.
- fervida** Panzer, 1804: 168 (*Musca*). Germany, Regensburg. T A Unknown.
- festinans** Scopoli, 1763: 349 (*Musca*). Carniola. T A DESTROY. Phoridae, *Phora* sp.
- festiva** Linnaeus, 1758a: 593 (*Musca*). Sweden. LT ♂ LSL. Syrphidae, *Xanthogramma festiva* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 155.
- festiva** Geoffroy, 1785: 479 (*Musca*). France, Paris. T A Author. Syrphidae, *Chrysotoxum arcuatum* Linnaeus. Preocc. Linnaeus 1758.
- festiva** Donovan, 1811: 13, pl. 511 (*Musca*). England. T ♀ UNKNOWN. Dolichopodidae. Preocc. Linnaeus 1758.
- fictor** Harris, 1780: 152, pl. 45, fig. 81 (*Musca*). England. T A Unknown. Muscidae, *Helina fictor* Harris. Unrecognized.
- fieldi** Rainbow, 1897: 98, pl. 1, fig. 4 (*Ebenia*). Ellice Is, Funafuti Atoll, Tuvalu. HT ♀ AMS. Muscidae, *Musca vetustissima* Walker. See Pont 1968: 90.
- filata** Gmelin, 1790: 2830 (*Musca*). Subsequent Usage of *Bibio filata* Fabricius. Mydidae, *Mydas clavatus* Drury.
- filiformis** Fabricius, 1794: 337 (*Musca*). Germany. T A UZMC F. Micropezidae, *Micropeza corrigiolata* Linnaeus.
- fimetaria** Linnaeus, 1758a: 599 (*Musca*). Europe. T A LSL. Psilidae, *Psila fimetaria* Linnaeus. 2 sp. in LSL (Dear MS).
- fimeti** Linnaeus, 1761: 456 (*Musca*). Sweden. T A Lost. Sepsidae, *Themira putris* Linnaeus. Types lost, not in LSL (*teste* Pont MS).
- fimetorum** Geoffroy, 1785: 496 (*Musca*). France, Paris. T A Author.
- flavescens** Fabricius, 1798: 565 (*Musca*). Morocco, Tangiers. T A UZMC. Tephritidae, *Euleia marmorea* Fabricius. Preocc. Gmelin 1790.
- flavicans** Müller, 1764: 85 (*Musca*). Denmark, Sjaelland, Frederiksdal. T A Author.
- flava** Linnaeus, 1758a: 600 (*Musca*). Europe. T A LSL. Chyromyidae, *Chyromya flava* Linnaeus. 1 sp. in LSL (Dear MS).
- flava** Geoffroy, 1785: 499 (*Musca*). Subsequent Usage of *Musca flava* Linnaeus. Chyromyidae, *Chyromya flava* Linnaeus.
- flava** Schellenberg, 1803: 62 (*Musca*). Subsequent Usage of *Musca flava* Linnaeus. Psilidae, *Psila fimetaria* Linnaeus. Misidentification.
- flaveola** Fabricius, 1794: 343 (*Musca*). Denmark, Copenhagen. T A UZMC. Dryomyzidae, *Dryomyza flaveola* Fabricius.
- flavescens** de Villers, 1789a: 433 (*Musca*). Subsequent Usage of *Volucella flavescens* Geoffroy. Syrphidae.
- flavescens** Gmelin, 1790: 2860 (*Musca*). Europe. T A NMI.
- flavicans** Panzer, 1798a: 18 (*Musca*). Austria. T ♀ ZMHU. Preocc. Müller 1764.
- flavicans** Doleschall, 1859: 112 (*Musca*). Amboina. T A NMW. Calliphoridae, *Pollenia* sp. Preocc. Müller 1764. Type(s) not found in Vienna [*teste* Pont].
- flavicans** Sherborn, 1902: 373 (*Musca*). Missp. *flavicans* Müller.
- flaviceps** Ratzeburg, 1844: 172 (*Musca*). Germany. T A Unknown. Tachinidae, *Ceromyia flaviceps* Ratzeburg.
- flaviceps** Walker, 1849: 870 (*Musca*). Subsequent Usage of *Lucilia flaviceps* Macquart. Calliphoridae, *Chrysomya megacephala* Fabricius.

- flavicornis* Gmelin, 1790: 2874 (*Musca*). Subsequent Usage of *Syrphus flavicornis* Fabricius. Syrphidae, *Cheilosia flavicornis* Fabricius.
- flavicornis* Fallén, 1825: 88 (*Musca*). Sweden, Skåne. HT ♂ ZIL. Muscidae, *Coenosia flavicornis* Fallén. See Pont 1984: 284.
- flavifacies* Bigot, 1888: 606 (*Musca*). New Caledonia. HT ♀ BMNH. Muscidae, *Musca domestica* Linnaeus. See Pont 1990: 165.
- flavifrons* Panzer, 1798c: 22 (*Musca*). Austria. T A ZMHU. Sciomyzidae, *Limnia unguicornis* Scopoli.
- flavinervis* Thomson, 1868: 547 (*Musca*). Ross Island [=Cocos-Keeling]. T ♀ NRS. Muscidae, *Musca domestica* Linnaeus.
- flavipalpis* Meigen, 1838: 305 (*Musca*). N. n. *Musca autissiodorensis* Robineau-Desvoidy. Calliphoridae, *Calliphora autissiodorensis* Robineau-Desvoidy.
- flavipennis* Fallén, 1823: 59 (*Musca*). Sweden, Västergötland. LT ♀ ZIL. Anthomyiidae, *Chirosia flavipennis* Fallén. Lectotype designated by Michelsen 1983: 112.
- flavipennis* Bigot, 1887: clxxiii (*Musca*). USA, Rocky Mts. LT ♂ BMNH. Muscidae, *Musca domestica* Linnaeus. Preocc. Fallén 1823. Lectotype designated by Pont 1990: 165.
- flavipes* Fabricius, 1781: 420 (*Rhagio*). Germany. T A UZMC F. Athericidae, *Atherix flavipes* Fabricius.
- flavipes* de Villers, 1789a: 419 (*Musca*). Subsequent Usage of *Nemotelus flavipes* De Geer.
- flavipes* Fabricius, 1794: 254 (*Bibio*). Germany. T A UZMC F. Therevidae, *Dialineura anilis* Linnaeus.
- flavipes* Schrank, 1803: 123 (*Musca*). Germany, Bavaria. T A Unknown. Sciomyzidae, *Sepedon spehegeus* Fabricius.
- flavipes* Fallén, 1825: 90 (*Musca*). Sweden, Skåne. LT ♂ NRS. Anthomyiidae, *Pegomya pulchripes* Loew. Preocc. Schrank 1803. Lectotype designated by Michelsen 1983: 112.
- flavissima* Turton, 1801: 629 (*Musca*). Subsequent Usage of *Stratiomys flavissima* Rossi. Stratiomyidae, *Odontomyia flavissima* Rossi.
- fletcheri* Patton & Senior-White, 1924: 574, pl. 31, fig. 21 (*Musca*). India, Samalkota. LT ♂ BMNH. Muscidae, *Musca fletcheri* Patton & Senior-White. Lectotype designated by Pont 1990: 165.
- floralis* Fallén, 1824: 71 (*Musca*). Sweden, Skåne. LT ♂ ZIL. Anthomyiidae, *Delia floralis* Fallén. Lectotype designated by Michelsen 1983: 112.
- floralis* Robineau-Desvoidy, 1830: 397 (*Musca*). France. T ♀ DESTROY. Muscidae, *Musca autumnalis* De Geer. Preocc. Fallén 1824.
- floralis* Meigen, 1838: 307 (*Musca*). Subsequent Usage of *Pollenia floralis* Robineau-Desvoidy. Calliphoridae, *Pollenia rudis* Fabricius.
- floreana* Linnaeus, 1758a: 591 (*Musca*). Sweden. LT ♂ LSL. Syrphidae, *Myathropa florea* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 156.
- floreana* Fabricius, 1794: 255 (*Bibio*). Germany. T A UZMC F. Phoridae, *Diplonevra florescens* Turton. Preocc. Linnaeus 1758. N. Syn.
- florescens* Turton, 1801: 636 (*Musca*). N. n. *Bibio florea* Fabricius. Phoridae, *Diplonevra florescens* Turton. N. Status
- florescentiae* Linnaeus, 1758a: 601 (*Musca*). Europe. T A LSL. Tephritidae, *Trypeta florescentiae* Linnaeus.



- florum** Fabricius, 1794: 352 (*Musca*). Italy. T A UZMC F. Opomyzidae, *Opomyza florum* Fabricius.
- formosa** Scopoli, 1763: 339 (*Musca*). Carniola. T A DESTROY. Stratiomyidae, *Chloromyia formosa* Scopoli.
- formosa** Panzer, 1798b: 21 (*Musca*). Austria. T A ZMHU. Otitidae, *Otites elegans* Latreille. Preocc. Scopoli 1763. N. Syn.
- formosa** Donovan, 1830: 320 (*Musca*). [Australia]. Tachinidae, *Rutilia formosa* Robineau-Desvoidy. Published in synonymy, not subsequently validated by usage.
- formosana** Malloch, 1925: 375 (*Musca*). Taiwan, Okaseki. HT ♂ DEI. Muscidae, *Musca formosana* Malloch.
- formosus** Harris, 1780: 107, pl. 32, fig. 43 (*Musca*). England. T A Unknown. Syrphidae, *Epistrophe grossulariae* Meigen. Preocc. Scopoli 1763.
- fortunata** Walker, 1859: 137 (*Musca*). Sulawesi, Makassar. T ♂ BMNH. Calliphoridae, *Hemipyrellia ligurriens* Wiedemann.
- freedmani** Paterson, 1957: 108, fig. 3 (*Musca*). Botswana, near Sekhuma. HT ♂ SAIMR. Muscidae, *Musca freedmani* Paterson.
- frigida** Fabricius, 1805: 307 (*Musca*). Norway, Lapland. T A UZMC. Coelopidae, *Coelopa frigida* Fabricius.
- frit** Linnaeus, 1758a: 598 (*Musca*). Europe. T A LSL. Chloropidae, *Oscinella frit* Linnaeus. 3 sp. in LSL (Dear MS).
- frondescentiae** Linnaeus, 1758a: 601 (*Musca*). Europe. T A LSL. Otitidae, *Herina frondescentiae* Linnaeus. 2 sp. in LSL (Dear MS).
- frontalis** Latreille, 1802: 457 (*Musca*). Unknown (=Europe). T A MNHNP. Sarcophagidae, *Metopia argyrocephala* Meigen.
- frontalis** Gimmerthal, 1834: 115 (*Musca*). Livonia (=Estonia & Latvia). T ♂ LMNR. Muscidae. Preocc. Latreille 1802.
- frontalis** Macquart, 1843: 308, pl. 21, fig. 3 (*Musca*). Algeria, Algiers. T ♂ MHNL. Muscidae, *Musca domestica* Linnaeus. Preocc. Latreille 1802.
- frontalis** Rondani, 1868: 51 (*Musca*). Italy. T A USB. Muscidae, *Musca domestica* Linnaeus. Preocc. Latreille 1802.
- frutetorum** Gmelin, 1790: 2870 (*Musca*). Subsequent Usage of *Syrphus frutetorum* Fabricius. Syrphidae, *Parhelophilus frutetorum* Fabricius.
- fucata** Fabricius, 1794: 359 (*Musca*). West Indies. T A UZMC F. Tephritidae, *Acinia tessariae* Kieffer & Jorgensen. Preocc. Harris 1780.
- fucatus** Harris, 1780: 83, pl. 24, fig. 29 (*Musca*). England. T A Unknown. Syrphidae, *Xylota segnis* Linnaeus.
- fuciformis** Fabricius, 1794: 290 (*Syrphus*). France. T A MNHNP. Syrphidae, *Mallota fuciformis* Fabricius.
- fucina** Walker, 1849: 883 (*Musca*). South Africa. T ♀ BMNH. Calliphoridae, *Lucilia cuprina* Wiedemann.
- fulges** Harris, 1780: 87, pl. 25, fig. 23 (*Musca*). England. T A Unknown. Calliphoridae, *Lucilia caesar* Linnaeus.
- fulva** Gmelin, 1790: 2878 (*Musca*). Europe. T A NMI. Syrphidae, *Cheilosia illustrata* Harris. Preocc. Harris 1780.
- fulvescens** Robineau-Desvoidy, 1830: 397 (*Musca*). Cayenne. T ♂ DESTROY. Muscidae, *Musca domestica* Linnaeus.
- fulvicornis** Meigen, 1838: 307 (*Musca*). Subsequent Usage of *Pollenia fulvicornis* Robineau-Desvoidy. Calliphoridae, *Pollenia rudis* Fabricius.

- fulvicornis* Zetterstedt, 1859: 6186 (*Musca*). Sweden, Skåne. HT ♂ ZIL. Calliphoridae, *Pollenia viatica* Robineau-Desvoidy. Preocc. Robineau-Desvoidy 1830. See Rognes 1991aa: 230, 1991ab: 483.
- fulvimaculata* Manuel, 1811: 20 (*Musca*). N. n. *Musca quadrimaculata* Swederus. Calliphoridae, *Calliphora quadrimaculata* Swederus.
- fulvipalpis* Meigen, 1838: 308 (*Musca*). Subsequent Usage of *Pollenia fulvipalpis* Macquart. Calliphoridae, *Pollenia rudis* Fabricius.
- fulvipes* Geoffroy, 1785: 495 (*Musca*). France, Paris. T A Author.
- fulvithorax* Santos Abreu, 1976: 140 (*Musca*, as *vitripennis* var.). *Nomen nudum*. Canary Is. Muscidae, *Musca osiris* Wiedemann. Varietal name proposed after 1960.
- fulviventris* Schrank, 1781: 469 (*Musca*). Austria, Vienna. T A Unknown. Platystomatidae, *Platystoma seminationis* Fabricius.
- fulvus* Harris, 1780: 80, pl. 24, fig. 22 (*Musca*). England, Essex, East Tilbury. T A Unknown. Syrphidae, *Arctophila superbiens* Müller.
- fumigata* Scopoli, 1763: 336 (*Musca*). Carniola. T A DESTROY. Sciomyzidae, *Euthycera fumigata* Scopoli.
- fumipennis* Walker, 1856a: 25 (*Musca*). Singapore. T ♂ BMNH. Calliphoridae, *Hypopygiopsis fumipennis* Walker.
- funebres* Harris, 1780: 106, pl. 32, fig. 37 (*Musca*). England. Syrphidae, *Cheilosia funebres* Harris.
- funebri* Harris, 1782: index (*Musca*). Missp. *funebres* Harris. Syrphidae, *Cheilosia funebres* Harris.
- funebri* Fabricius, 1787: 345 (*Musca*). Denmark, Copenhagen. ST ♀ UZMC. Drosophilidae, *Drosophila funebri* Fabricius. See Bächli 1982: 293.
- funesta* Turton, 1801: 648 (*Musca*). Subsequent Usage of *Syrphus funestus* Fabricius. Syrphidae, *Merodon funesta* Fabricius.
- fungorum* Scopoli, 1763: 337 (*Musca*). Carniola. T A DESTROY.
- fungorum* De Geer, 1776: 89, pl. 5, fig. 2 (*Musca*). Sweden. LT ♂ NRS. Anthomyiidae, *Pegomya steini* Hendel. Preocc. Scopoli 1763. Lectotype designated by Persson, Pont & Michelsen 1984: 92.
- funibres* Harris, 1780: 74 (*Musca*). Incomp. *funebres* Harris. Syrphidae, *Cheilosia funebres* Harris. Name status by present revision.
- furcata* Fabricius, 1794: 343 (*Musca*). France. T A MNHNP. Piophilidae, *Centrophlebomyia furcata* Fabricius.
- furcata* Turton, 1801: 622 (*Musca*). N. n. *Musca fucata* Fabricius. Tephritidae, *Acinia tessariae* Kieffer & Jorgensen. Preocc. Fabricius 1794.
- furta* Linnaeus, 1767: 991 (*Musca*). Sweden, Uppsala. LT ♂ ZIU. Drosophilidae, *Stegana furta* Linnaeus. Lectotype designated by Bächli 1982: 299.
- fusca* de Villers, 1789a: 511 (*Musca*). Sweden. T A Unknown. Preocc. Harris 1776.
- fusca* Gmelin, 1790: 2833 (*Musca*). Non-European. T A NMI. Bombyliidae. Preocc. Harris 1776.
- fuscata* Gmelin, 1790: 2865 (*Musca*). Subsequent Usage of *Tipula fuscata* Fabricius. Anisopodidae, *Sylvicola fuscatus* Fabricius.
- fuscata* Fallén, 1825: 85 (*Musca*). Sweden, Skåne. LT ♂ NRS. Muscidae, *Phaonia fuscata* Fallén. Lectotype designated by Pont 1984: 284.
- fuscipennis* Fabricius, 1805: 291 (*Musca*). Sumatra. HT ♀ UZMC. Calliphoridae, *Silbomyia fuscipennis* Fabricius. See Townsend 1931c: 374; Crosskey 1965:68.

- fuscipennis* von Roser, 1840: 58 (*Musca*). Germany, Württemberg. T A SMN. Muscidae, *Pyrellia rapax* Harris. Preocc. Fabricius 1805.
- fuscipes* Gmelin, 1790: 2843 (*Musca*). Europe. T A NMI.
- fuscula* Fallén, 1825: 86 (*Musca*). Sweden, Skåne, Äsperöd. LT ♂ ZIL. Fanniidae, *Fannia fuscula* Fallén. Lectotype designated by Pont 1984: 285.
- fuscus* Scopoli, 1763: 355 (*Conops*). N. n. *Conops interruptus* Poda. Syrphidae, *Eristalis interrupta* Poda.
- fuscus* Harris, 1776: 42, pl. 10, fig. 3 (*Musca*). England. T A Unknown. Syrphidae, *Eristalis intricaria* Linnaeus.
- fusififormis* Turton, 1801: 642 (*Musca*). N. n. *Musca fuciformis* Fabricius. Syrphidae, *Mallota fuciformis* Fabricius.
- gabonensis* Macquart, 1855: 135 (*Musca*). Gabon. HT ♂ BMNH. Muscidae, *Musca gabonensis* Macquart. See Pont 1990: 165.
- galeata* Rossi, 1794: 73 (*Musca*). Italy. T A ZMHU.
- galpinus* Harris, 1780: 118, pl. 35, fig. 28 (*Musca*). England. T A Unknown. Opomyzidae.
- gamelia* Walker, 1849: 878 (*Musca*). Uruguay, Montevideo. T ♂ BMNH. Calliphoridae, *Compsomyiops fulvicrura* Robineau-Desvoidy.
- gangraenosa* Panzer, 1798b: 22 (*Musca*). Austria. T A ZMHU. Otitidae, *Melieria gangraenosa* Panzer. N. Status
- gastrodes* Rossi, 1794: 67, pl. 3, fig. 11 (*Musca*). Italy. T A ZMHU. Tachinidae.
- gavisa* Walker, 1859: 138 (*Musca*). Sulawesi, Makassar. T ♀ BMNH. Muscidae, *Neomyia gavisa* Walker.
- genarum* Zetterstedt, 1837: 42 (*Musca*). *Nomen nudum*. [Sweden, Torne Lappmark, Torneträsk]. T ♂ ZIL. Calliphoridae, *Calliphora genarum* Zetterstedt.
- genarum* Zetterstedt, 1838: 658 (*Musca*). Sweden, Torne Lappmark, Torneträsk. LT ♂ ZIL. Calliphoridae, *Calliphora genarum* Zetterstedt. Lectotype designated by Rognes 1986: 352.
- geniculata* De Geer, 1776: 38, pl. 2, fig. 19 (*Musca*). Not given, probably Sweden. T A Lost. Tachinidae, *Siphona geniculata* De Geer. See Andersen 1982: 168.
- geniculata* Fallén, 1825: 89 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Coenosia femoralis* Robineau-Desvoidy. Preocc. De Geer 1776. Lectotype designated by Pont 1984: 285.
- gentilis* Meigen, 1838: 302 (*Musca*). Germany. T A. MNHNP. Calliphoridae, *Melinda gentilis* Robineau-Desvoidy. N. Syn.
- geographica* Geoffroy, 1785: 478 (*Musca*). France, Paris. T A Author.
- germana* Walker, 1849: 880 (*Musca*). Subsequent Usage of *Lucilia germana* Robineau-Desvoidy. Calliphoridae, *Onesia germana* Robineau-Desvoidy.
- germanica* Gmelin, 1790: 2842 (*Musca*). N. n. *Musca plebeja* Fabricius. Tachinidae, *Dexia rustica*? Fabricius.
- germinationis* Linnaeus, 1758a: 600 (*Musca*). Europe. T A LSL. Opomyzidae, *Opomyza germinationis* Linnaeus. 2 sp. in LSL (Dear MS).
- germinationis* Rossi, 1790: 316 (*Musca*). Subsequent Usage of *Musca germinationis* Linnaeus. Opomyzidae, *Opomyza germinationis* Linnaeus.
- gibba* Müller, 1776: 175 (*Musca*). Iceland. T A DESTROY. Dolichopodidae, *Dolichopus plumipes* Scopoli.
- gibba* Rossi, 1794: 73 (*Musca*). Italy. T A ZMHU. Preocc. Müller 1776.

- gibba* Fabricius, 1805: 297 (*Musca*). South America. T A UZMC. Curtonotidae, *Curtonotum taeniatum* Hendel. Preocc. Müller 1776. N. Syn.
- gibbosa* Linnaeus, 1758a: 593 (*Musca*). Sweden. T A LSL. Acroceridae, *Ogcodes gibbosa* Linnaeus. 1 sp. in LSL (Dear MS).
- gibbosa* De Geer, 1776: 35, pl. 2, fig. 1 (*Musca*). Sweden. T A NRS. Chamaemyiidae. Preocc. Linnaeus 1758.
- gibbosa* Thunberg, 1789: 90 (*Musca*). *Nomen nudum*. Proposed as n. n. *Hippobosca cincta* Thunberg. Preocc. Linnaeus 1758.
- gibsoni* Patton & Cragg, 1913a: 14, pl. 1 (*Musca*). India, Kodaikanal. LT ♂ BMNH. Muscidae, *Musca convexifrons* Thomson. Lectotype designated by Pont 1990: 165.
- gigantea* Lichtenstein, 1796: 213 (*Musca*). Unknown. T A Auction.
- glabrata* Fabricius, 1794: 341 (*Musca*). France. T A MNHNP. Lauxaniidae, *Caliopomyia glabrata* Fabricius.
- glabricula* Fallén, 1825: 75 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Hydrotaea glabricula* Fallén. Lectotype designated by Pont 1984: 285.
- glauca* Linnaeus, 1758a: 593 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Leucozona glauca* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 156.
- glaucoptera* Gmelin, 1790: 2861 (*Musca*). Europe. T A NMI.
- globosa* Gmelin, 1790: 2875 (*Musca*). Subsequent Usage of *Syrphus globosus* Fabricius. Tachinidae, *Gymnosoma globosum* Fabricius.
- globulipes* Geoffroy, 1785: 495 (*Musca*). France, Paris. T A Author. Empididae, *Hilara globulipes* Geoffroy. N. Comb.
- gloriosa* Walker, 1858b: 104 (*Musca*). Moluccas, Aru Islands. HT ♀ BMNH. Calliphoridae, *Stilbomyella gloriosa* Walker. See Crosskey 1965: 95.
- graeca* Pontoppidan, 1765: 229 (*Musca*). Denmark. T A Unknown. Stratiomyidae, *Oxycera trilineata* Linnaeus. Suppressed by I.C.Z.N. 1987: 149.
- graminum* Fabricius, 1775: 785 (*Musca*). Germany, Leipzig. T A UZMC F. Otitidae.
- graminum* Fabricius, 1794: 346 (*Musca*). France, Paris. T A Author. Otitidae, *Dorycera aquatica* Geoffroy. Preocc. Fabricius 1775. N. Syn.
- grandis* Schrank, 1837: 17 (*Musca*). Germany, Burghusii [= Italy, Burgursio]. T A Unknown. Xylophagidae, *Coenomyia ferruginea* Scopoli.
- granditarsa* Forster, 1770: 15 (*Musca*). *Nomen nudum*. England. Syrphidae, *Platycheirus granditarsus* Forster. Published without diagnosis or indication.
- granditarsa* Forster, 1771: 99 (*Musca*). England. T A LSL? Syrphidae, *Platycheirus granditarsus* Forster. See Day & Fitton 1977.
- greeni* Patton, 1933d: 477, fig. 1 (*Musca*). Malaya, Kuala Lumpur. LT ♂ BMNH. Muscidae, *Musca formosana* Malloch. Lectotype designated by Pont 1990: 166.
- grisea* de Villers, 1789a: 511 (*Musca*). Sweden, Skåne. T A Unknown.
- grisea* Fabricius, 1805: 293 (*Musca*). South America. LT ♀ UZMC. Muscidae, *Cyrtoneurina spilopectera* Wiedemann. Preocc. de Villers 1789. Lectotype designated by Michelsen 1979a: 185.
- grisea* Fallén, 1823: 57 (*Musca*). Sweden, Västergötland. LT ♂ NRS. Anthomyiidae, *Leucophora grisella* Hennig. Preocc. de Villers 1789. Lectotype designated by Michelsen 1983: 113.
- grisella* Robineau-Desvoidy, 1863: 622 (*Musca*). France, Paris. T A DESTROY. Muscidae, *Musca autumnalis* De Geer.



- griseus** Fallén, 1817: 243 (*Musca*). Sweden. T ♂ NRS. Tachinidae, *Dinera griseus* Fallén.
- groenlandica** Zetterstedt, 1838: 657 (*Musca*). Norway, Greenland (Lectotype) & Sweden. LT ♂ UZMC. Calliphoridae, *Protophormia terraenovae* Robineau-Desvoidy. Lectotype designated by Rognes 1991a: 136.
- grossa** Linnaeus, 1758a: 596 (*Musca*). Europe. T A LSL. Tachinidae, *Tachina grossa* Linnaeus. 2 sp. in LSL (Dear MS).
- grossificationis** Linnaeus, 1758a: 599 (*Musca*). Europe. HT ♀ LSL. Rhinophoridae, *Melanophora roralis* Linnaeus. See Crosskey 1977: 51.
- grossipes** Linnaeus, 1767: 988 (*Musca*). Europe. T A LSL. Empididae, *Hybos grossipes* Linnaeus. 1 sp. in LSL (Dear MS).
- guineensis** Wiedemann, 1824: 48 (*Musca*). Guinea. T ♂ DESTROY. Muscidae, *Neomyia guineensis* Wiedemann.
- gulo** Fabricius, 1805: 283 (*Musca*). South America. HT ♀ UZMC. Sarcophagidae, *Paraprissopoda gulo* Fabricius. See Townsend 1931a: 74; Pape 1986: 302.
- gurnei** Patton & Cragg, 1912: 513 (*Musca*). India, Kodaikanal. LT ♂ BMNH. Muscidae, *Musca inferior* Stein. Lectotype designated by Pont 1990: 166.
- gurneyi** Patton, 1922: 422 (*Musca*). Missp. *gurnei* Patton & Cragg. Muscidae, *Musca inferior* Stein.
- guttata** Geoffroy, 1785: 495 (*Musca*). France, Paris. T A Author.
- gymnosomea** Rondani, 1862: 222 (*Musca*). Malta. T A USB. Muscidae, *Musca domestica* Linnaeus.
- haemorrhoea** Gravenhorst, 1807: 378 (*Musca*). Unknown, probably Germany. T A Lost. Sarcophagidae.
- haemorrhoidalis** de Villers, 1789a: 548, pl. 10, fig. 8 (*Musca*). France, Nemausum [= Nemours]. T A Author. Tephritidae.
- haemorrhoidalis** Fallén, 1817: 237 (*Musca*). Sweden. LT ♂ NRS. Sarcophagidae, *Ravinia pernix* Harris. Preocc. de Villers 1789. Lectotype designated by Pape 1986: 304.
- halterata** Panzer, 1798a: 13 (*Musca*). Austria. T A ZMHU. Sarcophagidae, *Nyctia halterata* Panzer.
- hamata** Fallén, 1823: 61 (*Musca*). Sweden, Skåne, Äsperöd. LT ♂ NRS. Muscidae, *Drymeia hamata* Fallén. Lectotype designated by Pont 1984: 285.
- harpyia** Harris, 1835: 599 (*Musca*). *Nomen nudum*. Massachusetts. T A MCZ. Muscidae, *Musca domestica* Linnaeus. Published without diagnosis or indication.
- harpyia** Harris, 1841: 413 (*Musca*). New England. T A MCZ. Muscidae, *Musca domestica* Linnaeus.
- hartigii** Ratzeburg, 1844: 172 (*Musca*). Germany. T A Unknown. Tachinidae, *Goniocera versicolor* Fallén.
- hauriens** Wiedemann, 1830: 398 (*Musca*). Egypt. T ♀ SMF. Sarcophagidae.
- hebes** Harris, 1780: 158, pl. 47, fig. 4 (*Musca*). England. T A Unknown. Dolichopodidae.
- hebes** Walker, 1853b: 338 (*Musca*). Senegal? T ♀ BMNH. Calliphoridae, *Chrysomya chloropyga* Wiedemann. Preocc. Harris 1780.
- hederacea** Geoffroy, 1785: 491 (*Musca*). France, Paris. T A Author. Calliphoridae, *Onesia hederacea* Geoffroy. N. Comb.
- heidiae** Zielke, 1974: 5 (*Musca*). Tanzania, Manyara Nat. Park, Res. Camp. HT ♂ CAS. Muscidae, *Musca heidiae* Zielke.

- helenii** de Villers, 1789a: 536 (*Musca*). N. n. *Musca duplicata* Geoffroy.
- helianthi** Rossi, 1794: 73 (*Musca*). Italy. T A ZMHU. Tephritidae, *Acanthiophilus helianthi* Rossi.
- helluo** Fabricius, 1805: 295 (*Musca*). Austria. T A UZMC F. Tachinidae, *Heliozeta helluo* Fabricius. "HT not seen" Townsend 1931c: 387.
- helvola** Meuschen, 1787: 212 (*Musca*). Unknown. T A Auction.
- hemiptera** Turton, 1801: 639 (*Musca*). Subsequent Usage of *Syrphus hemipterus* Fabricius. Tachinidae, *Allophora hemiptera* Fabricius.
- hemipterus** Donovan, 1807: 95 (*Musca*). Subsequent Usage of *Syrphus hemipterus* Fabricius. Tachinidae, *Allophora hemiptera* Fabricius.
- hemisphaerica** Geoffroy, 1785: 480 (*Musca*). France, Paris. T A Author. Tachinidae, *Gymnosoma rotundatum* Linnaeus.
- heraclei** Fabricius, 1794: 354 (*Musca*). Germany, Kiel. T A UZMC F. Tephritidae, *Tephritis postica* Loew.
- heraclii** Linnaeus, 1758a: 600 (*Musca*). Europe. T A LSL. Tephritidae, *Euleia heraclii* Linnaeus. See White 1987: 103.
- heraea** Walker, 1849: 881 (*Musca*). North America? T ♂ BMNH. Muscidae, *Neomyia cornicina* Fabricius.
- hervei** Villeneuve, 1922: 335 (*Musca*). China & Tonkin. ST ♂ ♀ MNHNP. Muscidae, *Musca hervei* Villeneuve.
- hieracii** Fabricius, 1775: 787 (*Musca*). England. T A UZMC F. Sciomyzidae, *Tryptoptera punctulata* Scopoli.
- hilaris** Fallén, 1823: 57 (*Musca*). Sweden, Västergötland. LT ♀ NRS. Anthomyiidae, *Eustalomyia hilaris* Fallén. Lectotype designated by Michelsen 1983: 113.
- hilli** Johnston & Bancroft, 1920e: 35 (*Musca*). Australia, Queensland. LT ♂ QMB. Muscidae, *Musca terraereginae* Johnston & Bancroft. Lectotype designated by Pont 1973: 181.
- hilli** Johnston & Bancroft, 1920b: 23 (*Musca*). *Nomen nudum*. Australia, Queensland. Muscidae, *Musca terraereginae* Johnston & Bancroft. [also 1920c: 52, 1920d: 74].
- himella** Walker, 1849: 876 (*Musca*). Unknown. T ♂ DESTROY. Calliphoridae, *Chrysomya albiceps* Wiedemann.
- hirsuta** de Villers, 1789a: 427, pl. 9, fig. 11 (*Musca*). France, Massiliam (=Marseille). T A Author. Bombyliidae, *Hemipenthes maurus* Linnaeus. Synonymy by Evenhuis (*in litt.*). N. Syn.
- hirsuta** de Villers, 1789a: 509 (*Musca*). Europe. T A Unknown. Acalyptrate. Preocc. de Villers 1789.
- hirsuta** Donovan, 1810: 60, pl. 490, fig. 2 (*Musca*). England. T ♀ UNKNOWN. Tachinidae, *Servillia lurida* Fabricius. Preocc. de Villers 1789.
- hirsutissima** de Razoumowsky, 1789: 230 (*Musca*). Switzerland. T A UNKNOWN. Syrphidae, *Volucella bombylans* Linnaeus.
- hirta** Drury, 1773: 109 (*Musca*). Jamaica. T A UNKNOWN. Tachinidae.
- hirta** de Villers, 1789a: 420 (*Musca*). Subsequent Usage of *Nemotelus hirta* De Geer. Therevidae, *Thereva nobilitata* Fabricius.
- hirta** Gravenhorst, 1807: 379 (*Musca*). Unknown, probably Germany. T A Lost. Tachinidae. Preocc. Drury 1773.
- hirticeps** Fallén, 1824: 67 (*Musca*). Sweden, Skåne. HT ♀ ZIL. Muscidae, *Hydrotaea hirticeps* Fallén. See Pont 1984: 285.

- hirticollis* Harris, 1835: 599 (*Musca*). *Nomen nudum*. Massachusetts. Published without diagnosis or indication.
- histrionica* Fabricius, 1794: 343 (*Musca*). India Orientali. T A UZMC F. Psilidae.
- hoi* Fan, 1965: 119, pl. 18, fig. 381 (*Musca*). China, Shensi, Tsuihuashan. HT ♂ SIE. Muscidae, *Musca pilifacies* Emden.
- hordei* Linnaeus, 1764c: 354 (*Musca*). *Nomen nudum*. Sweden. T A LSL. Chloropidae, *Oscinella frit* Linnaeus. Published in non-binominal work.
- hordei* Bjerkander, 1777: 34 (*Musca*). Sweden. T A UNKNOWN. Chloropidae, *Oscinella frit* Linnaeus.
- hortensia* Wiedemann, 1824: 49 (*Musca*). Java. LT ♂ UZMC. Muscidae, *Morellia hortensia* Wiedemann. Lectotype designated by Pont 1973: 221.
- hortensis* Geoffroy, 1785: 481 (*Musca*). France, Paris. T A Author.
- horticola* De Geer, 1776: 140, pl. 8, fig. 12 (*Musca*). N. n. *Musca nemorum* Linnaeus. Syrphidae, *Eristalis arbustorum* Linnaeus.
- hortona* Walker, 1849: 894 (*Musca*). New Zealand. T ♀ BMNH. Calliphoridae, *Xenocalliphora hortona* Walker.
- hortorum* Gmelin, 1790: 2869 (*Musca*). Subsequent Usage of *Syrphus hortorum* Fabricius. Syrphidae, *Palpada hortorum* Fabricius.
- hortorum* Fallén, 1817: 252 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Morellia hortorum* Fallén. Lectotype designated by Pont 1984: 286.
- hortulana* Linnaeus, 1758b: (*Musca*). Subsequent Usage of *Tipula hortulana* Linnaeus. Bibionidae, *Bibio hortulanus* Linnaeus. [also Linnaeus 1760: 244].
- hortulana* Scopoli, 1763: 343 (*Musca*). Carniola. T A DESTROY. Syrphidae, *Cheilosia hortulana* Scopoli.
- hortulana* Rossi, 1790: 313 (*Musca*). Italy, Tuscany, Firenze & Pisa. T A ZMHU. Otitidae, *Ceroxys hyalinata* Panzer. Preocc. Scopoli 1763. N. Syn.
- hortulana* Wiedemann, 1830: 417 (*Musca*). China. ST ♀ DESTROY. Muscidae, *Morellia hortensia* Wiedemann. Preocc. Scopoli 1763. See Emden 1965: 110.
- hottentota* Robineau-Desvoidy, 1830: 399 (*Musca*). South Africa, Cape of Good Hope. T ♂ DESTROY. Muscidae, *Musca domestica* Linnaeus. Preocc. Linnaeus 1758.
- hottentotta* Linnaeus, 1758a: 590 (*Musca*). Europe. T A LSL. Bombyliidae, *Anthrax hottentotta* Linnaeus. 2 sp. in LSL (Dear MS).
- hugonis* Pont, 1980: 725 (*Musca*). N. n. *Musca longipes* Paterson. Muscidae, *Musca hugonis* Pont.
- humilis* Wiedemann, 1830: 418 (*Musca*). East Indies. LT ♂ NMW. Muscidae, *Musca sorbens* Wiedemann. Lectotype designated by Pont 1973: 287.
- hyalinata* Panzer, 1798c: 24 (*Musca*). Austria. T A ZMHU. Otitidae, *Ceroxys hyalinata* Panzer. N. Status
- hyalinata* Fallén, 1823: 64 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Thricops semicinereus* Wiedemann. Preocc. Panzer 1798. Lectotype designated by Pont 1984: 286.
- hydroleon* Linnaeus, 1758a: 589 (*Musca*). Europe. T A LSL. Stratiomyidae, *Odonotomyia hydroleon* Linnaeus. 1 sp. in LSL (Dear MS).
- hydrophila* Rossi, 1794: 74 (*Musca*). Italy. T A ZMHU.
- hydropica* Scudder, 1877: 757 (*Musca*). Colorado, White River [Oligocene]. T X USNM.

- hyoscyami** Linnaeus, 1758a: 600 (*Musca*). Europe. T A LSL. Tephritidae, *Tephritis hyoscyami* Linnaeus. See White 1987: 103.
- hypoleon** Linnaeus, 1767: 980 (*Musca*). Germany. T A LSL. Stratiomyidae, *Oxycera trilineata* Linnaeus. 3 sp. in LSL (Dear MS).
- hystrix** Fabricius, 1775: 777 (*Musca*). N. n. *Musca pilosa* Drury. Tachinidae, *Archytas pilosus* Drury.
- iacobaeae** Panzer, 1805: 22 (*Musca*). Incosp. *iacobaeae* Panzer. Tephritidae, *Urophora stylata* Fabricius. Name status by present revision.
- icela** Walker, 1849: 897 (*Musca*). New Zealand. T ♀ BMNH. Calliphoridae, *Xenocalliphora hortona* Walker.
- ichneumonea** Linnaeus, 1758a: 593 (*Musca*). Europe. T A LSL. Psilidae, *Loxocera ichneumonea* Linnaeus.
- ichneumonoides** Geoffroy, 1785: 498 (*Musca*). France, Paris. T A Author.
- idessa** Walker, 1849: 908 (*Musca*). Ontario, St. Martin's Falls. HT ♀ BMNH. Muscidae, *Graphomya idessa* Walker. See Arntfield 1975: 282.
- ieiuna** Fabricius, 1787: 342 (*Musca*). India, Tranquebar. HT ♀ UZMC. Calliphoridae, *Bengalia ieiuna* Fabricius. See Townsend 1931c: 371.
- ignavus** Harris, 1780: 154, pl. 45, fig. 91 (*Musca*). England. T ♀ Unknown. Muscidae, *Hydrotaea ignava* Harris.
- ilerda** Walker, 1849: 895 (*Musca*). (Ontario, St. Martin's Falls). T ♀ BMNH. Calliphoridae, *Cynomya cadaverina* Robineau-Desvoidy.
- iliaca** Ratzeburg, 1840: 125 (*Musca* (*Tachina*)). Germany. T A UNKNOWN. Tachinidae.
- illingworthi** Patton, 1923b: 323 (*Musca*). Java, Buitenzorg. ST A BBM. Muscidae, *Musca illingworthi* Patton. See Pont 1990: 166 (STs also in Manchester Museum).
- illucens** Linnaeus, 1758a: 589 (*Musca*). South America. T A NRS. Stratiomyidae, *Hermetia illucens* Linnaeus.
- illustratus** Harris, 1780: 104, pl. 32, fig. 32 (*Musca*). England. T A Unknown. Syrphidae, *Cheilosia illustrata* Harris.
- illustris** Meigen, 1826: 54 (*Musca*). Germany. ST ♂ ♀ NMW. Calliphoridae, *Lucilia illustris* Meigen. See Collin 1926: 258.
- imbellis** Harris, 1776: 60, pl. 15, fig. 16 (*Musca*). England. T A Unknown. Syrphidae, *Chrysotoxum arcuatum* Linnaeus.
- impavida** Rossi, 1790: 304 (*Musca*). Italy, Tuscany, Firenze & Pisa. T A ZMHU. Calliphoridae, *Rhyncomya impavida* Rossi.
- importuna** Haliday, 1836: 149 (*Musca*). Ireland, Down, Holywood. T ♂ NMI. Muscidae, *Morellia hortorum* Fallén.
- impuncta** Fallén, 1825: 79 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Helina impuncta* Fallén. Lectotype designated by Pont 1984: 286.
- inaequalis** Geoffroy, 1785: 483 (*Musca*). France, Paris. T A Author. Syrphidae, *Episyrphus cannabina* Scopoli.
- inanis** Linnaeus, 1758a: 595 (*Musca*). Sweden. LT ♂ LSL. Syrphidae, *Volucella inanis* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 156.
- inanis** Fabricius, 1775: 763 (*Syrphus*). West Indies. T A UZMC F. Syrphidae, *Copestylum brunneum* Thunberg. Preocc. Linnaeus 1758.
- inanis** Fallén, 1825: 91 (*Musca*). Sweden, Skåne. LT ♂ NRS. Muscidae, *Achanthip-tera rohrelliformis* Robineau-Desvoidy. Preocc. Linnaeus 1758. Lectotype designated by Pont 1984: 287.



- incerta* Walker, 1853b: 334 (*Musca*). Columbia. HT ♀ BMNH. Calliphoridae, *Sarconesia magellanica* Le Guillou. See Dear 1979: 161.
- incerta* Patton, 1922b: 71 (*Musca*). India, Madras, Saidapet. LT ♂ BMNH. Muscidae, *Musca pattoni* Austen. Preocc. Walker 1853. Lectotype designated by Pont 1990: 166.
- inconclusa* Walker, 1860: 160 (*Musca*). Moluccas, Amboina. T ♂ BMNH. Calliphoridae, *Polleniopsis inconclusa* Walker.
- inconstans* Wiedemann, 1830: 672 (*Musca*). *Nomen nudum*. Muscidae, *Musca crassirostris* Stein. Published without diagnosis or indication.
- incurvata* Bouché, 1834: 68 (*Musca*). Germany. T A UNKNOWN. Muscidae, *Myospila mediatubunda* Fabricius.
- inda* Schrank, 1781: 438 (*Musca*). Austria, Vienna & Linz. T A Unknown. Stratiomyidae, *Clitellaria ephippium* Fabricius.
- indica* Walker, 1849: 880 (*Musca*). Subsequent Usage of *Lucilia indica* Robineau-Desvoidy. Muscidae, *Neomyia indica* Robineau-Desvoidy.
- indica* Awati, 1916b: 138 (*Musca*). India, Delhi, Kasauli & S. India. ST ♂ ♀ CRIC. Muscidae, *Musca planiceps* Wiedemann. Preocc. Harris 1776.
- indicus* Harris, 1776: 47, pl. 11, fig. 77 (*Musca*). England. T A Unknown. Stratiomyidae, *Sargus iridatus* Scopoli.
- inducta* Walker, 1853b: 335 (*Musca*). East Indies. T ♀ BMNH. Calliphoridae, *Lucilia papuensis* Macquart.
- inferior* Stein, 1909: 213 (*Musca*). Java, Semarang. LT ♂ ITZA. Muscidae, *Musca inferior* Stein. Lectotype designated by Pont 1970a: 89.
- infixa* Walker, 1856a: 25 (*Musca*). Singapore. T ♀ BMNH. Calliphoridae, *Hypopygiopsis violacea* Macquart.
- inflata* Turton, 1801: 637 (*Musca*). Subsequent Usage of *Syrphus inflatus* Fabricius. Syrphidae, *Volucella inflata* Fabricius.
- ingens* Walker, 1859b: 134 (*Musca*). Sulawesi, Makasar. T ♂ BMNH. Calliphoridae, *Catapicephala ingens* Walker.
- ingredior* Harris, 1780: 140, pl. 41, fig. 33 (*Musca*). England. T ♂ Unknown. Muscidae, *Neomyia cornicina* Fabricius. Name improperly formed (verb).
- ingruo* Harris, 1780: 144, pl. 42, fig. 53 (*Musca*). England. T A Unknown. Dolichopodidae, *Sciapus* sp. Name improperly formed (verb).
- ingrus* Harris, 1780: 143 (*Musca*). Incomp. *ingruo* Harris. Dolichopodidae, *Sciapus ingruo* Harris. Name status by present revision.
- inscribens* Walker, 1859b: 136 (*Musca*). Sulawesi, Makassar. T ♀ BMNH. Calliphoridae, *Lucilia papuensis* Macquart.
- insignis* Austen, 1909: 298, fig. 1 (*Philaematomyia*). India. LT ♂ BMNH. Muscidae, *Musca crassirostris* Stein. Lectotype designated by Pont 1990: 166.
- insularis* Walker, 1853b: 340 (*Musca*). West Indies. T ♀ BMNH. Calliphoridae, *Lucilia eximia* Wiedemann.
- intermedia* Fallén, 1825: 87 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Coenosia intermedia* Fallén. Lectotype designated by Pont 1984: 287.
- intermedia* Meigen, 1838: 306 (*Musca*). Subsequent Usage of *Pollenia intermedia* Macquart. Calliphoridae, *Pollenia intermedia* Macquart.
- interpuncta* Fallén, 1823: 63 (*Musca*). *Nomen nudum*. Muscidae, *Helina impuncta* Fallén. Published without diagnosis or indication. Mentioned under *quadrimaculata*, error for *impuncta*.

- interpunctio** Ratzeburg, 1844: 170 (*Musca*). Germany. T A Unknown. Tachinidae.
- interpunctus** Harris, 1776: 59, pl. 15, fig. 13 (*Musca*). England. T ♀ Unknown. Syrphidae, *Lejops interpunctus* Harris.
- interrupta** Geoffroy, 1785: 482 (*Musca*). France, Paris. T A Author. Syrphidae.
- interrupta** Gmelin, 1790: 2879 (*Musca*). Europe. T A NMI. Syrphidae, *Epistrophe eligans* Harris. Preocc. Geoffroy 1785.
- interrupta** Walker, 1853b: 343 (*Musca*). Cape. HT ♂ BMNH. Muscidae, *Musca interruptella* Pont. Preocc. Geoffroy 1785. See Pont 1990: 166.
- interruptella** Pont, 1980: 725 (*Musca*). N. n. *Musca interrupta* Walker. Muscidae, *Musca interruptella* Pont.
- interruptus** Poda, 1761: 118 (*Conops*). Austria, Graz. T A Unknown. Syrphidae, *Eristalis interrupta* Poda.
- intersecta** Geoffroy, 1785: 479 (*Musca*). France, Paris. T A Author. Syrphidae.
- interventum** Harris, 1780: 144, pl. 42, fig. 57 (*Musca*). England. T A Unknown. Rhinophoridae, *Melanophora roralis* Linnaeus.
- interventus** Harris, 1780: 145, pl. 42, fig. 60 (*Musca*). England. T A Unknown. Tachinidae.
- intrahens** Walker, 1859: 137 (*Musca*). Sulawesi, Makassar. T ♀ BMNH. Muscidae, *Neomyia timorensis* Robineau-Desvoidy.
- intricaria** Linnaeus, 1758a: 592 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Eristalis intricaria* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 156.
- intricata** Turton, 1801: 638 (*Musca*). N. n. *Musca intricaria* Linnaeus. Syrphidae, *Eristalis intricaria* Linnaeus.
- investigator** Harris, 1776: 35, pl. 9, fig. 3 (*Musca*). England. T A Unknown. Tachinidae, *Linnaemya vulpina*? Fallén.
- invisito** Harris, 1780: 83, pl. 24, fig. 31 (*Musca*). England. T A Unknown. Syrphidae, *Sphaerophoria scripta* Linnaeus. Name improperly formed (verb).
- ionia** Meigen, 1975: 435, pl. 199, fig. 9 (*Musca*). *Nomen nudum*. Germany, probably Stolberg. Calliphoridae, *Lucilia* sp. Published after 1930 without a description.
- iridata** Scopoli, 1763: 340 (*Musca*). Carniola. T A DESTROY. Stratiomyidae, *Sargus iridatus* Scopoli.
- irritans** Harris, 1780: 148 (*Musca*). Subsequent Usage of *Conops irritans* Linnaeus. Muscidae, *Haematobia irritans* Linnaeus.
- irritans** Fallén, 1823: 62 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Hydrotaea irritans* Fallén. Lectotype designated by Pont 1984: 287.
- irwinrossi** Zielke, 1974: 7 (*Musca*). Tanzania, Manyara Nat. Park, Res. Camp, Ndala River. HT ♂ CAS. Muscidae, *Musca xanthomelaena* Wiedemann.
- jacobaeae** Panzer, 1805: 22 (*Musca*). Germany. T A UNKNOWN. Tephritidae, *Urophora stylata* Fabricius.
- jacobsoni** Malloch, 1928: 334 (*Byomya*). Sumatra, Fort de Kock. HT ♂ IITZA. Muscidae, *Musca fletcheri* Patton & Senior-White.
- jamaicensis** Gmelin, 1790: 2871 (*Musca*). N. n. *Syrphus nigrita* Fabricius. Syrphidae, *Sterphus jamaicensis* Gmelin.
- japonica** Thunberg, 1789: 90 (*Musca*). Japan. T A ZIU. Stratiomyidae, *Ptecticus japonica* Thunberg. N. Status
- ieiuna** Fabricius, 1794: 312 (*Musca*). emend. *ieiuna* Fabricius. Calliphoridae, *Bengalia ieiuna* Fabricius.

- jejuna* Fabricius, 1805: 283 (*Musca*). emend. *ieiuna* Fabricius. Calliphoridae, *Bengalia ieiuna* Fabricius.
- jejuna* Schrank, 1837: 17 (*Musca*). Austria, Gern. T A Unknown. Stratiomyidae, *Oplodontha viridula* Fabricius. Preocc. Fabricius 1787.
- joco* Harris, 1780: 157, pl. 47, fig. 1 (*Musca*). England. T A Unknown. Dolichopodidae, *Poecilobothrus nobilitatus* Linnaeus.
- kasauliensis* Awati, 1916b: 138 (*Musca*). India, Kasauli. ST ♂ ♀ CRİK. Muscidae, *Musca ventrosa* Wiedemann.
- kihuris* Zielke, 1971c: 127 (*Musca*). Tanzania, Kihurio. ST ♂ ♀ UNKNOWN. Muscidae, *Musca lusoria* Wiedemann.
- kweilinensis* Ôuchi, 1938b: 31 (*Musca*). China, Kwangsi, Kweilin. HT ♂ SIE. Muscidae, *Musca conducens* Walker.
- labiata* Fabricius, 1787: 346 (*Musca*). Denmark, Copenhagen. T A UNKNOWN. Sarcophagidae, *Metopia labiata* Fabricius. See Pape 1986: 302.
- lacustris* Scopoli, 1763: 343 (*Musca*). Carniola. T A DESTROY. Dolichopodidae, *Orthoceratium lacustre* Scopoli.
- laemica* White, 1843: 291 (*Musca*). New Zealand. LT ♀ BMNH. Calliphoridae, *Calliphora stygia* Fabricius. Lectotype designated by Dear 1985a: 25.
- laemica* Walker, 1849: 906 (*Musca*). New Zealand (Lectotype) & Australia. LT ♀ BMNH. Calliphoridae, *Calliphora stygia* Fabricius. Preocc. White 1843. Lectotype designated by us here: LT of *laemica* White = LT of Walker.
- laeta* Turton, 1801: 647 (*Musca*). Subsequent Usage of *Syrphus laetus* Fabricius. Syrphidae, *Xanthogramma laeta* Fabricius.
- laeta* Fallén, 1823: 56 (*Musca*). Sweden, Skåne, Bäckaskog. LT ♀ NRS. Muscidae, *Phaonia laeta* Fallén. Lectotype designated by Pont 1984: 287.
- lagyra* Walker, 1849: 885 (*Musca*). Azores, Fayal. T ♀ BMNH. Calliphoridae, *Lucilia sericata* Meigen.
- lamed* Schrank, 1781: 475 (*Musca*). Austria. T A Unknown. Otitidae, *Otites lamed* Schrank.
- lancifer* Harris, 1780: 126, pl. 36, fig. 59 (*Musca*). England. T A Unknown. Anthomyiidae, *Hydrophoria lancifer* Harris.
- laniaria* Wiedemann, 1830: 683 (*Musca*, as *macellaria* var.). Brazil. T A Lost. Calliphoridae, *Cochliomyia macellaria* Fabricius. ST not found in ZMHU (Dear 1985a: 141).
- lanio* Panzer, 1798a: 11 (*Musca*). Austria. T A ZMHU. Calliphoridae, *Pollenia* sp.
- lappae* Cederhielm, 1798: 319 (*Musca*). USSR, Ingrica [= St. Petersburg Area]. T A UNKNOWN. Tephritidae, *Terellia lappae* Cederhielm.
- lappona* Linnaeus, 1758a: 591 (*Musca*). Sweden. LT ♂ LSL. Syrphidae, *Sericomyia lappona* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 157.
- lar* Gmelin, 1790: 2832 (*Musca*). Subsequent Usage of *Bibio lar* Fabricius. Bombyliidae, *Litorhina lar* Fabricius.
- lardaria* Fabricius, 1781: 436 (*Musca*). Germany. T A DESTROY. Muscidae, *Polietes lardaria* Fabricius. See Michelsen 1979a: 185.
- larvarum* Linnaeus, 1758a: 596 (*Musca*). Europe. T A LSL. Tachinidae, *Exorista larvarum* Linnaeus.
- larvarum* Scopoli, 1763: 331 (*Musca*). Carniola. ST L DESTROY. Tachinidae. Four varieties described, each from different Lepidopteran host.

- larvata* Lepechin, 1774: 310, pl. 20, fig. 2 (*Musca*). *Nomen nudum*. [Russia]. Published in non-binominal work.
- larvata* Schrank, 1781: 452 (*Musca*). Austria, Upper Austria, Eberspergae [= Ebersberg]. T A Unknown.
- larvata* Geoffroy, 1785: 475 (*Musca*). France, Paris. T A Author. Preocc. Schrank 1781.
- larvata* Gmelin, 1790: 2845 (*Musca*). USSR, Urals. T A Unknown. Preocc. Schrank 1781.
- larvincola* Ratzeburg, 1844: 173 (*Musca*). Germany. Tachinidae, *Exorista larvarum* Linnaeus.
- larvipara* Portschinsky, 1910: 29, fig. 30 (*Musca*). Southern Russia. ST ♂ ♀ ASL. Muscidae, *Musca larvipara* Portschinsky.
- lasciva* Fabricius, 1798: 564 (*Musca*). Cayenne. T A UZMC F. Micropezidae, *Taeniptera lasciva* Fabricius.
- lasiopa* Villeneuve, 1936: 414 (*Musca*). Kenya, Mt Kenya. ST ♀ BMNH. Muscidae, *Musca lasiopa* Villeneuve. Syntypes also at MRAC. See Pont 1990: 166.
- lasiophthalma* Thomson, 1868: 548 (*Musca*). South Africa, Cape of Good Hope. T A NRS. Muscidae, *Musca lasiophthalma* Thomson.
- lateralis* Linnaeus, 1758a: 597 (*Musca*). Europe. LT ♂ LSL. Fanniidae, *Fannia canicularis* Linnaeus. Suppressed by I.C.Z.N. 1969:124. Lectotype designated by Pont 1981: 170.
- lateralis* Fabricius, 1775: 778 (*Musca*). Germany. T A UZMC F. Tachinidae, *Eriothrix rufomaculata* De Geer. Preocc. Linnaeus 1758.
- lateralis* Geoffroy, 1785: 496 (*Musca*). Subsequent Usage of *Musca lateralis* Linnaeus. Fanniidae, *Fannia canicularis* Linnaeus.
- lateralis* Donovan, 1792: 69 (*Musca*). England. T A Author. Tachinidae, *Eriothrix rufomaculata* De Geer. Preocc. Linnaeus 1758. N. Syn.
- lateralis* Fabricius, 1805: 286 (*Musca*). South America. HT ♂ UZMC. Tachinidae, *Opsozelia discalis* Townsend. Preocc. Linnaeus 1758. See Townsend 1931a: 96.
- lateralis* Fallén, 1817: 241 (*Musca*). Sweden, Skåne. T A NRS. Tachinidae, *Thelaira nigrina* Fallén. Preocc. Linnaeus 1758.
- lateralis* Macquart, 1834: 158 (*Musca*). France, Lille. T ♀ MHNL. Muscidae, *Musca domestica* Linnaeus. Preocc. Linnaeus 1758.
- lateritia* Schrank, 1796: 129 (*Musca*). T A UNKNOWN.
- laternaria* Müller, 1776: 174 (*Musca*). Denmark. T A Author. Syrphidae, *Leucozona laternaria* Müller.
- laticornis* Fallén, 1825: 86 (*Musca*). Sweden, Skåne. HT ♀ ZIL. Anthomyiidae, *Pegomya laticornis* Fallén. See Michelsen 1983: 113.
- laticornis* Zetterstedt, 1837: 42 (*Musca*). *Nomen nudum*. [Sweden, Bottnia occidentalis, Muonioniska]. T ♀ ZIL. Calliphoridae, *Calliphora genarum* Zetterstedt.
- laticornis* Zetterstedt, 1838: 658 (*Musca*). Sweden, Bottnia occidentalis, Muonioniska. LT ♀ ZIL. Calliphoridae, *Calliphora genarum* Zetterstedt. Preocc. Fallén 1825. Lectotype designated by Rognes 1986: 352.
- latifrons* Fallén, 1817: 238 (*Musca*). Sweden, Skåne, Äsperöd. LT ♂ NRS. Sarcophagidae, *Sarcophila latifrons* Fallén. Lectotype designated by Pape 1986: 305.
- latifrons* Wiedemann, 1830: 656 (*Musca*). China, Macao. LT ♀ NMW. Muscidae, *Musca vetustissima* Walker. Preocc. Fallén 1817. Lectotype designated by Pont 1973: 148.



- latiparafrons* Awati, 1916b: 138 (*Musca*). India. ST ♀ CRİK. Muscidae, *Musca convexifrons*? Thomson.
- latipes* Gmelin, 1790: 2861 (*Musca*). Europe. T A NMI.
- latrinarum* De Geer, 1776: 31, pl. 1, fig. 15 (*Musca*). N. n. *Musca serrata* Linnaeus. Heleomyzidae, *Heleomyza serrata* Linnaeus.
- latro* Fabricius, 1787: 349 (*Musca*). Europe. T A UZMC F.
- lauta* Wiedemann, 1830: 410 (*Musca*). Java. LT ♀ NMW. Muscidae, *Neomyia lauta* Wiedemann. Lectotype designated by Pont 1973: 192 (Townsend (1931c: 369) HT designation invalid).
- leneatus* Harris, 1780: index (*Musca*). Missp. *lineatus* Harris. Syrphidae, *Eristalis lineata* Harris.
- lenio* Harris, 1780: 147, pl. 43, fig. 66 (*Musca*). England. T A Unknown. Anthomyiidae, *Hydrophoria linogrisea* Meigen. Name improperly formed (verb).
- lenis* Harris, 1780: 154, pl. 45, fig. 88 (*Musca*). England. T A Unknown. Anthomyiidae.
- leonina* Fabricius, 1775: 776 (*Musca*). Australia. HT ♂ BMNH B. Calliphoridae, *Amenia leonina* Fabricius. See Townsend 1931c: 374 (HT in Kiel!); Crosskey 1965: 112.
- leontodontis* De Geer, 1776: 46, pl. 2, fig. 18 (*Musca*). N. n. *Musca hyoscyami* Linnaeus. Tephritidae, *Tephritis hyoscyami* Linnaeus.
- lepida* Fallén, 1825: 76 (*Musca*). Subsequent Usage of *Anthomyia lepida* Wiedemann. Fanniidae, *Fannia lepida* Wiedemann.
- lepidus* Harris, 1780: 121, pl. 35, fig. 40 (*Musca*). England. T A Unknown. Chloropidae, *Chlorops lepidus* Harris. N. Status
- leporinus* Harris, 1780: 117, pl. 34, fig. 23 (*Musca*). England. T A Unknown. Acalyptrate.
- leprae* Linnaeus, 1758a: 598 (*Musca*). America. T A LSL.
- leptogaster* Panzer, 1798a: 19 (*Musca*). Austria. T A ZMHU. Psilidae, *Chyliza leptogaster* Panzer.
- leucocephala* de Villers, 1789a: 550, pl. 10, fig. 11 (*Musca*). France, Cevennes Mts. T A Author. Sarcophagidae.
- leucocephala* Gmelin, 1790: 2878 (*Musca*). Europe. T A NMI. Syrphidae, *Eristalinus aeneus* Scopoli. Preocc. de Villers 1789.
- leucocephala* Rossi, 1790: 306 (*Musca*). Italy, Tuscany, Firenze & Pisa. T A ZMHU. Sarcophagidae, *Metopia argyrocephala* Meigen. Preocc. de Villers 1789.
- leucocephala* Walker, 1853b: 339 (*Musca*). Senegal? T ♀ BMNH. Calliphoridae, *Hemipyrellia fernandica* Macquart. Preocc. de Villers 1789.
- leucomelas* Wiedemann, 1824: 48 (*Musca*). South Africa, Cape of Good Hope. T ♀ UZMC. Muscidae, *Graphomya leucomelaena* Wiedemann.
- leuconyx* Rossi, 1794: 65 (*Musca*). Italy, "Etruria". T A ZMHU.
- leucopa* Linnaeus, 1767: 983 (*Musca*). America. T A LSL. Stratiomyidae, *Hermetia illucens* Linnaeus. 1 sp. in LSL (Dear MS).
- leucophaeus* Harris, 1782: 74 (*Musca*). Missp. *lucophaeus* Harris.
- leucopis* Gmelin, 1790: 2860 (*Musca*). Europe. T A NMI.
- leucoptera* Gmelin, 1790: 2861 (*Musca*). Europe. T A NMI.
- leucoptera* von Roser, 1840: 58 (*Musca*). Germany, Württemberg. T A SMN. Calliphoridae, *Pollenia* sp. Preocc. Gmelin 1790.
- leucosticta* Gmelin, 1790: 2860 (*Musca*). Non-European. T A NMI.

- leucozona** Panzer, 1806: 19 (*Musca*). Germany. T A UNKNOWN. Tachinidae, *Thelaira leucozona* Panzer.
- levidus** Harris, 1780: 124, pl. 36, fig. 52 (*Musca*). England. T A Unknown. Muscidae, *Muscina levida* Harris.
- libatrix** Scopoli, 1763: 346 (*Musca*). Carniola. T A DESTROY. Syrphidae.
- libatrix** Geoffroy, 1785: 498 (*Musca*). France, Paris. T A Author. Preocc. Scopoli 1763.
- libatrix** Panzer, 1798a: 12 (*Musca*). Austria. T A ZMHU. Tachinidae, *Zenillia fulva* Fallén. Preocc. Scopoli 1763. N. Syn.
- liberia** Snyder, 1951: 2 (*Musca*). Liberia, Robertsport, Near Bendu Village. HT ♂ AMNH. Muscidae, *Musca liberia* Snyder.
- ligurriens** Wiedemann, 1830: 655 (*Musca*). China & Java. ST ♂ UZMC NMW. Calliphoridae, *Hemipyrellia ligurriens* Wiedemann.
- lilaea** Walker, 1849: 894 (*Musca*). (Ontario, St. Martin's Falls). T ♀ BMNH. Calliphoridae, *Cynomya cadaverina* Robineau-Desvoidy.
- limatus** Harris, 1780: 122, pl. 36, fig. 45 (*Musca*). England. T A Unknown. Tephritidae.
- limbata** Gmelin, 1790: 2853 (*Musca*). N. n. *Musca marginata* Fabricius. Sciomyzidae, *Coremacera marginata* Fabricius.
- limbata** Manuel, 1811: 31 (*Musca*). Subsequent Usage of *Musca limbata* Gmelin. Sciomyzidae, *Coremacera marginata* Fabricius.
- lincensis** Schrank, 1776: 96, pl. 3, fig. 20 (*Musca*). Austria, Linz. T A Unknown. Tephritidae.
- lindneri** Paterson, 1956: 158, fig. 2 (*Musca*). Tanzania, Ngerengere. HT ♂ SMN. Muscidae, *Musca lindneri* Paterson.
- lineata** Fabricius, 1775: 754 (*Tipula*). England. T A BMNH. Keroplatidae, *Cerotelion striatus* Gmelin. N. Syn.
- lineata** Fabricius, 1781: 453 (*Musca*). Germany. T A UZMC F. Chloropidae, *Chlorops pumilionis* Bjerkander. Preocc. Harris 1776.
- lineata** Geoffroy, 1785: 485 (*Musca*). France, Paris. T A Author. Syrphidae, *Eumerus strigatus* Fallén. Preocc. Harris 1776. N. Comb.
- lineata** Turton, 1801: 620 (*Musca*). Subsequent Usage of *Musca lineata* Fabricius. Chloropidae, *Chlorops pumilionis* Bjerkander.
- lineata** Fallén, 1817: 238 (*Musca*). Sweden, Skåne, Bäckaskog. LT ♂ NRS. Sarcophagidae, *Blaesoxipha plumicornis* Zetterstedt. Preocc. Harris 1776. Lectotype designated by Pape 1986: 305.
- lineata** Brunetti, 1910: 91, pl. 8, fig. 19 (*Pristirhynchomyia*). India, W Bengal, Calcutta. ST ♀ ZSI. Muscidae, *Musca conducens* Walker. ST also in BMNH (Pont 1990: 167).
- lineatus** Harris, 1776: 42, pl. 10, fig. 4 (*Musca*). England. T A Unknown. Syrphidae, *Eristalis lineata* Harris.
- lineola** Turton, 1801: 634 (*Musca*). Subsequent Usage of *Rhagio lineola* Fabricius. Rhagionidae, *Rhagio lineola* Fabricius.
- lineolae** Harris, 1776: 58, pl. 15, fig. 10 (*Musca*). England. T A Unknown. Syrphidae, *Eristalis interrupta* Poda.
- lineolata** Gmelin, 1790: 2879 (*Musca*). Europe. T A NMI. Syrphidae, *Chrysogaster cemeteriorum* Linnaeus.

- lingens* Meigen, 1795: 452, pl. 270, fig. 5 (*Musca*). *Nomen nudum*. Germany, probably Stolberg. Tachinidae, *Strongygaster globula* Meigen. Published after 1930 without a description.
- lincensis* Gmelin, 1790: 2863 (*Musca*). Emend. *lincensis* Schrank. Tephritidae.
- liris* Walker, 1849: 882 (*Musca*). Australia (?Tasmania). HT ♀ BMNH. Tachinidae, *Rutilia liris* Walker. See Crosskey 1973a: 136.
- lithophila* Germar, 1839: 222 (*Musca*). Germany, Bavaria, Solenhofen [Jurassic]. T X UNKNOWN. Blattariae, *Mesoblattina lithophila* Germar.
- litorea* Fallén, 1823: 63 (*Musca*). Sweden, Skåne, Äsperöd. LT ♂ NRS. Muscidae, *Spilogona litorea* Fallén. Lectotype designated by Pont 1984: 288.
- liturariae* Ratzeburg, 1844: 170 (*Musca*). Germany. T A Unknown. Anthomyiidae, *Delia antiqua* Meigen.
- litorata* Gmelin, 1790: 2861 (*Musca*). Europe. T A NMI.
- litus* Harris, 1780: 119, pl. 35, fig. 32 (*Musca*). England. T A Unknown. Anthomyiidae, *Anthomyia pluvialis* Linnaeus.
- livens* Fabricius, 1794: 345 (*Musca*). Denmark. T A UZMC. Scathophagidae, *Hydromyza livens* Fabricius.
- longerro* Harris, 1780: 152, pl. 45, fig. 79 (*Musca*). England. T A Unknown. Psilidae.
- longervo* Harris, 1780: 74 (*Musca*). Incomp. *longerro* Harris. Psilidae. Name status by present revision.
- longicornis* Fabricius, 1775: 783 (*Musca*). America. LT ♂ UZMC F. Dolichopodiidae, *Condylostylus longicornis* Fabricius. Lectotype designated by Bickel *in press*.
- longicornis* Fabricius, 1781: 420 (*Rhagio*). Germany. T A UZMC F. Keroplatidae, *Macrocera macrocera* Gmelin. N. Status
- longicornis* Geoffroy, 1785: 477 (*Musca*). France, Paris. T A Author. Tephritidae. Preocc. Fabricius 1775; synonym of *Musca lincensis* Schrank.
- longicornis* de Villers, 1789a: 538 (*Musca*). N. n. *Musca lincensis* Schrank. Tephritidae, *Genus? lincensis* Schrank. Preocc. Fabricius 1775.
- longipennis* Fabricius, 1794: 323 (*Musca*). Germany. T A UZMC F. Lauxaniidae, *Minettia longipennis* Fabricius.
- longipes* Scopoli, 1763: 336 (*Musca*). Carniola. T A DESTROY.
- longipes* Geoffroy, 1785: 497 (*Musca*). France, Paris. T A Author. Preocc. Scopoli 1763.
- longipes* Fabricius, 1787: 348 (*Musca*). Cayenne. T A UZMC F. Micropezidae, *Cardiacephala guttata* Walker. Preocc. Scopoli 1763.
- longipes* Thunberg, 1791: 127 (*Musca*). N. n. *Musca femorata* Linnaeus. Syrphidae, *Chalcosyrphus femoratus* Linnaeus. Preocc. Scopoli 1763.
- longipes* Fabricius, 1805: 298 (*Musca*). South America. HT ♂ UZMC. Tachinidae, *Cholomyia acromion* Wiedemann. Preocc. Scopoli 1763. See Townsend 1931a: 93.
- longipes* Presl, 1822: 206 (*Musca*). Ligurian Prussian Amber. T A Unknown. Preocc. Scopoli 1763.
- longipes* Stephens, 1829b: 302 (*Musca*). England. Tachinidae. Published in synonymy, not subsequently validated by usage. Published in synonymy with *Dexia rustica* Fabricius.
- longipes* Paterson, 1957: 106, fig. 2 (*Musca*). Botswana, Martin's Drift. HT ♂ SAIMR. Muscidae, *Musca hugonis* Pont. Preocc. Scopoli 1763.

- longisco Harris, 1780: 83, pl. 24, fig. 30 (*Musca*). England. T A Unknown. Syrphidae, *Xyloa sylvarum* Linnaeus. Name improperly formed (verb).
- longula Fallén, 1824: 72 (*Musca*). Sweden, Skåne. LT ♂ NRS. Anthomyiidae, *Subhylemyia longula* Fallén. Lectotype designated by Michelsen 1983: 114.
- lothari Zielke, 1974: 9 (*Musca*). Kenya, 26 Miles SW Nairobi. HT ♂ CAS. Muscidae, *Musca xanthomelaena* Wiedemann.
- lucens Villeneuve, 1922: 336 (*Pristirynchomyia*). Ceylon, Kandy. ST ♂ UNKNOWN. Muscidae, *Musca conducens* Walker.
- lucida Scopoli, 1763: 347 (*Musca*). Carniola. T A DESTROY. Syrphidae, *Chrysogaster lucida* Scopoli.
- lucidula Loew, 1856: 48 (*Cyrtoneura*). Egypt, El Tûr. T ♀ NMW. Muscidae, *Musca lucidula* Loew.
- lucifer Gmelin, 1790: 2832 (*Musca*). Subsequent Usage of *Bibio lucifer* Fabricius. Bombyliidae, *Poecilanthrax lucifer* Fabricius.
- lucophaeus Harris, 1780: 74, pl. 21, fig. 3 (*Musca*). England. T A Unknown. Scathophagidae, *Scathophaga scybalaria* Linnaeus.
- lucopheus Harris, 1780: 74, pl. 21, fig. 3 (*Musca*). Incomp. *lucophaeus* Harris. Scathophagidae, *Scathophaga scybalaria* Linnaeus. Name status by present revision.
- lucorum Linnaeus, 1758a: 592 (*Musca*). Sweden. LT ♂ LSL. Syrphidae, *Leucozona lucorum* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 157.
- lucorum Houttuyn, 1768: 488 (*Musca*). Subsequent Usage of *Musca lucorum* Linnaeus. Syrphidae, *Leucozona lucorum* Linnaeus.
- lucorum Fallén, 1823: 55 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Helina evecta* Harris. Preocc. Linnaeus 1758. Lectotype designated by Pont 1984: 288.
- lucozona Sherborn, 1922: 3688 (*Musca*). Missp. *leucozona* Panzer. Tachinidae, *Thelaira leucozona* Panzer.
- luctuosa Schrank, 1803: 122 (*Musca*). Germany, Bavaria, Ingolstadt. T A Unknown.
- ludeus Harris, 1780: 157, pl. 47, fig. 3 (*Musca*). England. T A Unknown. Dolichopodidae, *Argyra diaphana* Fabricius.
- ludicrous Harris, 1780: index (*Musca*). Incomp. *ludicrous* Harris. Dolichopodidae, *Poecilobothrus nobilitatus* Linnaeus. Name status by present revision.
- ludicrous Harris, 1780: 157, pl. 47, fig. 2 (*Musca*). England. T A Unknown. Dolichopodidae, *Poecilobothrus nobilitatus* Linnaeus.
- ludifacies Robineau-Desvoidy, 1863: 621 (*Musca*). France, Paris. T A DESTROY. Muscidae, *Musca autumnalis* De Geer.
- ludifica Fabricius, 1794: 323 (*Musca*). Germany, Kiel. LT ♂ UZMC F. Muscidae, *Musca autumnalis* De Geer. Lectotype designated by Michelsen 1979a: 186.
- lugens Fabricius, 1787: 350 (*Musca*). Sierra Leone. T A UZMC F. Platystomatidae, *Engistoneura lugens* Fabricius.
- lugubris Fabricius, 1775: 770 (*Syrphus*). Denmark. T A UZMC F. Syrphidae, *Pipiza lugubris* Fabricius.
- lugubris Gmelin, 1790: 2832 (*Musca*). Subsequent Usage of *Bibio lugubris* Fabricius. Therevidae, *Thereva lugubris* Fabricius.
- lunata Turton, 1801: 645 (*Musca*). Subsequent Usage of *Syrphus lunatus* Fabricius. Syrphidae, *Eumerus lunatus* Fabricius.



- lunata** Fabricius, 1805: 292 (*Musca*). Madeira. LT ♂ UZMC. Calliphoridae, *Stomorphina lunata* Fabricius. See Townsend 1931c: 372. Lectotype designated by Rognes 1991a: 245.
- lunula** de Villers, 1789a: 433, pl. 9, fig. 16 (*Musca*). Europe. T A Author. Syrphidae, *Eristalis pertinax* Scopoli.
- lupina** Swederus, 1787: 289 (*Musca*). New Zealand. T A BMNH B. Tachinidae, *Bothrophora lupina* Swederus.
- lupulina** Fabricius, 1787: 344 (*Musca*). Denmark, Zealand. T A UZMC. Lauxaniidae, *Minettia lupulina* Fabricius.
- lurida** Fabricius, 1781: 441 (*Musca*). Germany. T A UZMC F. Tachinidae, *Servillia lurida* Fabricius.
- lusoria** Wiedemann, 1824: 47 (*Musca*). South Africa, Cape of Good Hope. T ♂ UZMC. Muscidae, *Musca lusoria* Wiedemann.
- lustrator** Harris, 1780: 148, pl. 43, fig. 72 (*Musca*). England. T A Unknown. Fanniidae, *Fannia lustrator* Harris.
- lutaria** Fabricius, 1794: 344 (*Musca*). Germany, Kiel. T A UZMC F. Scathophagidae, *Scathophaga lutaria* Fabricius.
- lutea** Gmelin, 1790: 2843 (*Musca*). Europe. T A NMI. Preocc. Harris 1780.
- luteipennis** Zetterstedt, 1845: 1325 (*Musca*). *Nomen nudum*. Muscidae, *Pyrellia rapax* Harris. Published in synonymy, not subsequently validated by usage. Proposed in synonymy with *aenea* Zetterstedt.
- luteola** Scopoli, 1763: 349 (*Musca*). Carniola. T A DESTROY. Chyromyidae, *Chyromya flava* Linnaeus.
- luteola** Gmelin, 1790: 2879 (*Musca*). Europe. T A NMI. Syrphidae, *Myolepta dubia* Fabricius. Preocc. Scopoli 1763.
- luteola** Fabricius, 1805: 286 (*Musca*). Guinea. T A UZMC. Calliphoridae, *Auchmeromyia senegalensis* Macquart. Preocc. Scopoli 1763.
- luteus** Harris, 1780: 116, pl. 34, fig. 16 (*Musca*). England. T A Unknown. Psilidae.
- lychnidis** Fabricius, 1787: 353 (*Musca*). Germany, Kiel. T A UZMC F. Tephritidae, *Myoleja caesio* Harris.
- lyra** Harris, 1776: 42, pl. 10, fig. 5 (*Musca*). England. T A Unknown. Syrphidae, *Eristalis lyra* Harris.
- lyrcea** Walker, 1849: 873 (*Musca*). Uruguay, Montevideo. LT ♂ BMNH. Calliphoridae, *Compsomyiops fulvicrura* Robineau-Desvoidy. Lectotype designated by Dear 1985b: 148.
- macellaria** Fabricius, 1775: 776 (*Musca*). "America". HT ♀ UZMC F. Calliphoridae, *Cochliomyia macellaria* Fabricius. See Townsend 1931a: 70; Dear 1985b: 140.
- macellaria** Haliday, 1833: 165 (*Musca*). Ireland, Down, Holywood. T A NMI. Calliphoridae, *Pollenia* sp. Preocc. Fabricius 1775. N. Comb.
- macrocephala** Harris, 1780: 82 (*Musca*). Subsequent Usage of *Conops macrocephala* Linnaeus. T A Unknown. Syrphidae, *Rhingia campestris* Meigen. Misidentification.
- macrocephala** Rossi, 1794: 72 (*Musca*). Italy. T A ZMHU. Preocc. Harris 1780.
- macroceras** Gmelin, 1790: 2866 (*Musca*). N. n. *Rhagio longicornis* Fabricius. Kero-platidae, *Macrocera macroceras* Gmelin. N. Comb.

- macrophthalma* Preysslér, 1791: 68, pl. 2, fig. 6 (*Musca*). Czechoslovakia, Bohemia. T A DESTROY. Syrphidae, *Eristalinus aeneus* Scopoli. See Rozkosny, Chvála & Pont 1982: 352.
- mactans* Fabricius, 1787: 344 (*Musca*). Cayenne. T A UZMC F.
- macularis* Walker, 1858b: 104 (*Musca*). Moluccas, Aru Islands. LT ♂ BMNH. Calliphoridae, *Paramenia macularis* Walker. Lectotype designated by Crosskey 1965: 131 (HT designation Townsend 1931c: 375).
- maculata* Scopoli, 1763: 326 (*Musca*). Carniola. T A DESTROY. Muscidae, *Graphomya maculata* Scopoli.
- maculata* Harris, 1780: 140, pl. 41, fig. 37 (*Musca*). England. T ♀ Unknown. Muscidae, *Graphomya maculata* Scopoli. Preocc. Scopoli 1763.
- maculata* de Villers, 1789a: 418 (*Musca*). Subsequent Usage of *Nemotelus maculatus* De Geer. Rhagionidae, *Rhagio maculatus* De Geer.
- maculata* de Villers, 1789a: 433 (*Musca*). Subsequent Usage of *Volucella maculata* Geoffroy.
- maculata* Meigen, 1804: 294 (*Atherix*). Germany. T ♂ MNHNP. Athericidae, *Atherix ibis* Fabricius.
- maculatus* Fabricius, 1781: 420 (*Rhagio*). Germany. T A UZMC F.
- major larvarum De Geer, 1776: 24 (*Musca*). *Nomen nudum*. N. n. *Musca larvarum* Linnaeus. Tachinidae, *Exorista larvarum* Linnaeus. Not available; polynominal, not binominal.
- malaisei* Emden, 1965: 91, fig. 2 (*Musca*). Burma, Kambaiti. HT ♂ NRS. Muscidae, *Musca malaisei* Emden.
- malansi* Stein, 1857: 106 (*Musca*). *Nomen nudum*. Switzerland, Graubünden. Calliphoridae.
- mallochi* Thompson & Pont, 1992: (*Musca*). N. n. *Musca squamata* Malloch. Muscidae, *Musca mallochi* Thompson & Pont. N. Name
- manicata* Fabricius, 1794: 334 (*Musca*). France. HT ♂ MNHNP. Ephydriidae, *Ochthera manicata* Fabricius. See Claussen 1977: 511.
- mano* Harris, 1780: 142, pl. 42, fig. 45 (*Musca*). England. T ♂ Unknown. Muscidae, *Eudasyphora cyanella* Meigen. Name improperly formed (verb).
- mantes* Harris, 1780: 148, pl. 43, fig. 73 (*Musca*). England. T A Unknown. Muscidae, *Drymeia vicana* Harris.
- mantis* De Geer, 1776: 143, pl. 8, fig. 17 (*Musca*). Sweden, Stockholm. NT ♂ NRS. Ephydriidae, *Ochthera mantis* De Geer. Neotype designation (Claussen 1977: 514).
- mantos* Harris, 1780: 148 (*Musca*). Incomp. *mantes* Harris. Muscidae, *Drymeia vicana* Harris. Name status by present revision.
- marginalis* Geoffroy, 1785: 497 (*Musca*). France, Paris. T A Author. Suppressed by I.C.Z.N. 1988: 236.
- marginalis* Fallén, 1824: 66 (*Musca*). Sweden, Västergötland, Kinneskogen. LT ♂ NRS. Muscidae, *Spilogona marginifera* Hennig. Preocc. Geoffroy 1785. Suppressed by I.C.Z.N. 1988: 236. Lectotype designated by Pont 1984: 289.
- marginalis* Wiedemann, 1830: 395 (*Musca*). South Africa, Nubia, Arabia. ST A UZMC NMW. Calliphoridae, *Chrysomya marginalis* Wiedemann. Conserved by I.C.Z.N. 1988: 236.
- marginata* Fabricius, 1775: 761 (*Stratiomys*). England. T A BMNH B. Stratiomyidae, *Nemotelus pantherinus* Linnaeus.

- marginata** Fabricius, 1775: 784 (*Musca*). Germany, Saxony. T A UZMC F. Sciomyzidae, *Coremacera marginata* Fabricius.
- marginella** Gmelin, 1790: 2836 (*Musca*). N. n. *Stratiomys marginata* Fabricius. Stratiomyidae, *Nemotelus pantherinus* Linnaeus.
- marginella** Estlund, 1796: 131 (*Musca*). Sweden. T A UNKNOWN. Preocc. Gmelin 1790.
- marginifera** Walker, 1858b: 105 (*Musca*). Aru Islands. T ♀ BMNH. Calliphoridae, *Lucilia papuensis* Macquart.
- maritima** Scopoli, 1763: 344 (*Musca*). Yugoslavia, Tergestum. T A DESTROY. Syrphidae, *Xylota segnis* Linnaeus.
- marmorata** Geoffroy, 1785: 474 (*Musca*). France, Paris. T A Author.
- marmorata** Fabricius, 1805: 300 (*Musca*). Germany. T A MNHNP. Tachinidae, *Lespesia vertiginosa* Fallén. Preocc. Geoffroy 1785. N. Comb.
- marina** Walker, 1849: 886 (*Musca*). Australia. HT ♀ BMNH. Muscidae, *Neomyia australis* Macquart. See Pont 1973: 203.
- marsya** Walker, 1849: 890 (*Musca*). Cape. HT ♂ BMNH. Muscidae, *Pyrellina marsya* Walker. See Pont 1973: 287.
- martia** Scopoli, 1763: 327 (*Musca*). Carniola. T A DESTROY. Sarcophagidae.
- maura** Linnaeus, 1758a: 590 (*Musca*). Europe. T A LSL. Bombyliidae, *Hemipenthes maurus* Linnaeus. 1 sp. in LSL (Dear MS).
- maura** Turton, 1801: 634 (*Musca*). N. n. *Rhagio morio* Fabricius. Sciaridae, *Bradysia forcipata* Fabricius. Preocc. Linnaeus 1758.
- maura** Fabricius, 1805: 302 (*Musca*). Barbaria [= Morocco: Tangiers]. LT ♂ UZMC F. Sarcophagidae, *Nyctia halterata* Panzer. Preocc. Linnaeus 1758. Lectotype designated by Pape 1986: 302 (also Townsend 1931c: 382).
- mazaca** Walker, 1849: 889 (*Musca*). South Africa, Cape of Good Hope. T ♀ BMNH. Muscidae, *Neomyia peronii* Robineau-Desvoidy.
- mediana** Wiedemann, 1830: 657 (*Musca*). China, Macao. LT ♂ NMW. Muscidae, *Musca sorbens* Wiedemann. Lectotype designated by Pont 1973: 288.
- meditabunda** Fabricius, 1781: 444 (*Musca*). Italy & Denmark, Copenhagen. LT ♀ UZMC F. Muscidae, *Myospila meditabunda* Fabricius. Lectotype designated by Michelsen 1979a: 186.
- meditalnenda** Gmelin, 1790: 2845 (*Musca*). N. n. *Musca meditabunda* Fabricius. Muscidae, *Myospila meditabunda* Fabricius.
- meditata** Fallén, 1825: 87 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Macrorchis meditata* Fallén. Lectotype designated by Pont 1984: 289.
- megacephala** Fabricius, 1794: 317 (*Musca*). Guinea. T A UZMC F. Calliphoridae, *Chrysomya megacephala* Fabricius.
- melancholica** Turton, 1801: 648 (*Musca*). Subsequent Usage of *Syrphus melancholica* Fabricius. Syrphidae, *Merodon natans* Fabricius.
- melanius** Harris, 1776: 59, pl. 15, fig. 12 (*Musca*). England. T A Unknown. Syrphidae, *Eristalinus sepulchralis* Linnaeus.
- melanochrysa** Gmelin, 1790: 2862 (*Musca*). Europe. T A NMI.
- melanochrysa** Gmelin, 1790: 2879 (*Musca*). Europe. T A NMI. Syrphidae, *Xylota segnis* Linnaeus. Preocc. Gmelin 1790: 2862.
- melanopsis** Gmelin, 1790: 2836 (*Musca*). Europe. T A NMI. Stratiomyidae.
- melanopsis** Turton, 1801: 631 (*Musca*). Subsequent Usage of *Musca melanopsis* Gmelin. Stratiomyidae.

- melanoptera** Gmelin, 1790: 2833 (*Musca*). Non-European. T A NMI. Bombyliidae.  
*melanoptera* Fallén, 1817: 253 (*Musca*). Sweden, Östergötland & Västergötland. T A NRS. Calliphoridae, *Morinia daronici* Scopoli. Preocc. Gmelin 1790. N. Syn.  
 As this name is preoccupied and must be replaced, we prefer to use the oldest probable name for the taxon (Schiner 1856: 412). Specialists should select a neotype for *Morinia daronici* (Scopoli) to fix this interpretation.
- melanopyrrha** Forster, 1770: 15 (*Musca*). *Nomen nudum*. Britain. Syrphidae, *Volucella bombylans* Linnaeus. Published without diagnosis or indication.
- melanopyrrha** Forster, 1771: 98 (*Musca*). England & Germany. T A LSL. Syrphidae, *Volucella bombylans* Linnaeus. See Day & Fitton 1977.
- melanura** Schrank, 1781: 457 (*Musca*). Austria, Linz. T A Unknown.
- melanura** Turton, 1801: 603 (*Musca*). Subsequent Usage of *Musca melanura* Schrank.
- melinus** Harris, 1780: 74 (*Musca*). Incosp. *mellinus* Harris. Dryomyzidae. Name status by present revision.
- mellina** Linnaeus, 1758a: 594 (*Musca*). Sweden. ST ♀ LSL. Syrphidae, *Melanostoma mellinum* Linnaeus. See Thompson *et al.* 1982: 157.
- mellina** Harris, 1780: 80, pl. 24, fig. 22 (*Musca*). England. T A Unknown. Syrphidae, *Scaeva pyrastris* Linnaeus. Preocc. Linnaeus 1758.
- mellinus** Harris, 1780: 74, pl. 21, fig. 4 (*Musca*). England. T A Unknown. Dryomyzidae. Preocc. Linnaeus 1758.
- menthastri** Linnaeus, 1758a: 594 (*Musca*). Sweden. ST ♀ LSL. Syrphidae, *Sphaerophoria menthastri* Linnaeus. See Thompson *et al.* 1982: 157.
- merdaria** Fabricius, 1794: 344 (*Musca*). Germany, Kiel. T A UZMC F. Scathophagidae, *Scathophaga stercoraria* Linnaeus.
- meridiana** Linnaeus, 1758a: 595 (*Musca*). Europe. HT ♂ LSL. Muscidae, *Mesembrina meridiana* Linnaeus. See Pont 1981: 170.
- meridiana** Bloch, 1776: 184, pl. 5, fig. 24 (*Musca*). Subsequent Usage of *Musca meridiana* Linnaeus. Muscidae, *Mesembrina meridiana* Linnaeus.
- meruensis** Zielke, 1973: 368 (*Musca*). Tanzania, Mt. Meru. HT ♂ CNC. Muscidae, *Musca meruensis* Zielke.
- merulina** Scopoli, 1763: 344 (*Musca*). Carniola. T A DESTROY. Syrphidae, *Cheilisia* sp.
- mesembrinoides** Walker, 1861b: 244 (*Musca*). New Guinea, Dorey. T ♀ BMNH. Calliphoridae, *Onesia obscurata* Walker.
- mesoleuca** Lichtenstein, 1796: 216 (*Musca*). Sinai. T A Auction.
- mesopotamiensis** Patton, 1920: 770, pl. 69 (*Musca*). Iraq, Euphrates & Tigris Rivers. ST A UNKNOWN. Muscidae, *Musca larvipara* Portschinsky. See Pont 1990: 167.
- metallina** Gmelin, 1790: 2874 (*Musca*). Subsequent Usage of *Syrphus metallinus* Fabricius. Syrphidae, *Lejogaster metallina* Fabricius.
- metallina** Gravenhorst, 1807: 378 (*Musca*). Unknown, probably Germany. T A Lost. Tachinidae.
- meteorica** Linnaeus, 1758a: 597 (*Musca*). Europe. T A Lost. Muscidae, *Hydrotaea meteorica* Linnaeus. See Pont 1981: 171.
- meteorica** Schrank, 1781: 464 (*Musca*). Subsequent usage of *Musca meteorica* Linnaeus. Muscidae, *Hydrotaea meteorica* Linnaeus.
- meticulosa** Scopoli, 1763: 344 (*Musca*). Carniola. T A DESTROY. Syrphidae, *Neoascia meticulosa* Scopoli. See Thompson 1981b: 475.



- metilia* Walker, 1849: 898 (*Musca*). Nepal. T ♂ BMNH. Calliphoridae, *Lucilia papuensis* Macquart.
- metus* Harris, 1780: 114, pl. 33, fig. 27 (*Musca*). England. T A Unknown. Tachinidae.
- micans* Turton, 1801: 637 (*Musca*). Subsequent Usage of *Syrphus micans* Fabricius. Syrphidae, *Volucella inanis* Linnaeus.
- micans* Fabricius, 1805: 291 (*Musca*). India Orientali. HT A UZMC. Calliphoridae, *Catapicephala micans* Fabricius. See Townsend 1931c: 375.
- micans* Meigen, 1838: 303 (*Musca*). N. n. *Calliphora rufipalpis* Macquart. Calliphoridae, *Onesia floralis* Robineau-Desvoidy. Preocc. Fabricius 1805.
- microleon* Linnaeus, 1758a: 589 (*Musca*). Europe. T A LSL. Stratiomyidae, *Odonatomyia microleon* Linnaeus. 2 sp. in LSL (Dear MS).
- miliaria* Schrank, 1781: 476 (*Musca*). Austria, Vienna, Prater. T A Unknown. Tephritidae, *Xyphosia miliaria* Schrank.
- minima* Zetterstedt, 1837: 42 (*Musca*). *Nomen nudum*. [Sweden, Marklin]. T A ZIL. Calliphoridae, *Melanomya nana* Meigen.
- minima* Zetterstedt, 1838: 654 (*Musca*). Sweden, Marklin. LT ♂ ZIL. Calliphoridae, *Melanomya nana* Meigen. Preocc. Harris 1780. Lectotype designated by Rognes 1991a: 199.
- minima* Rondani, 1868: 52 (*Musca*). Italy, Parma. T ♀ USB. Muscidae, *Musca tempestiva* Fallén. Preocc. Harris 1780.
- minimus* Harris, 1780: 87 (*Musca*, as *vomitator minimus*). England. T A Unknown. Calliphoridae, *Calliphora vomitoria* Linnaeus.
- minimus* Harris, 1780: index, pl. 35, fig. 43 (*Musca*, as *vibrans minimus*). England. T A UNKNOWN.
- minor* Harris, 1780: 153, pl. 45, fig. 83 (*Musca*, as *socio*). England. T A Unknown. Fanniidae, *Fannia canicularis* Linnaeus.
- minor* Turton, 1801: 655 (*Musca*). N. n. *Musca pusillus* Fabricius. Stratiomyidae, *Oplodontha minuta* Fabricius. Preocc. Harris 1780.
- minor* Macquart, 1851: 226 (*Musca*). Tasmania. LT ♂ MNHNP. Muscidae, *Musca domestica* Linnaeus. Preocc. Harris 1780. Lectotype designated by Pont 1967: 187.
- minor domestica* De Geer, 1776: 26 (*Musca*). *Nomen nudum*. [Sweden]. T A NRS. Fanniidae, *Fannia scalaris* Fabricius. Not available; polynominal, not binominal.
- minor larvarum* De Geer, 1776: 25 (*Musca*). *Nomen nudum*. [Sweden]. T A NRS. Tachinidae. Not available; polynominal, not binominal.
- minuta* Fabricius, 1787: 353 (*Musca*). Germany, Kiel. T A UZMC F. Chloropidae, *Meromyza saltatrix* Linnaeus. Preocc. Harris 1780.
- minuta* Fabricius, 1794: 268 (*Stratiomys*). India, Tranquebar. T A UZMC F. Stratiomyidae, *Oplodontha minuta* Fabricius. N. Comb.
- minuta* Awati, 1916b: 138 (*Musca*). India, Delhi. ST ♀ CRIK. Muscidae, *Musca confiscata* Speiser. Preocc. Harris 1780.
- minutior* Turton, 1801: 631 (*Musca*). N. n. *Stratiomyia minuta* Fabricius. Stratiomyidae, *Oplodontha minuta* Fabricius.
- minutissima* de Razoumowsky, 1789: 230 (*Musca*). Switzerland, Jorat. T A UNKNOWN.
- minutus* Harris, 1780: 74, pl. 21, fig. 7 (*Musca*). England. T A Unknown. Pallopteridae.
- mirabilis* Guérin-Méneville, 1838: 296 (*Musca*). Subsequent Usage of *Rutilia mirabilis* Guérin-Méneville. Tachinidae, *Formosia mirabilis* Guérin-Méneville.

- modesta* de Meijere, 1904: 106 (*Musca*). Java, Pasuruan. LT ♂ ITZA. Muscidae, *Musca crassirostris* Stein. Lectotype designated by Pont 1970a: 94.
- moerens* Fabricius, 1794: 349 (*Musca*). Guinea. T A UZMC F. Platystomatidae, *Engistoneura moerens* Fabricius.
- moesta* Gmelin, 1790: 2874 (*Musca*). N. n. *Syrphus lugubris* Fabricius. Syrphidae, *Pipiza lugubris* Fabricius.
- moesta* Gravenhorst, 1807: 379 (*Musca*). Unknown, probably Germany. T A UNKNOWN. Tachinidae. Preocc. Gmelin 1790.
- molio* Harris, 1780: 111, pl. 33, fig. 54 (*Musca*). England. T A Unknown. Syrphidae, *Neoascia podagrica* Fabricius. Name improperly formed (verb). See Thompson 1981b: 475.
- molitus* Harris, 1780: 110 (*Musca*). England. T A Unknown. Syrphidae, *Sphaerophoria scripta* Linnaeus.
- mollicula* Fallén, 1825: 90 (*Musca*). Sweden, Skåne. LT ♂ NRS. Muscidae, *Coenosia mollicula* Fallén. Lectotype designated by Pont 1984: 289.
- mollis* Walker, 1849: 892 (*Musca*). Ontario, St. Martin's Falls. T ♀ BMNH. Calliphoridae, *Phormia regina* Meigen.
- monachae* Ratzeburg, 1844: 173 (*Musca*). Germany. T A Unknown. Tachinidae, *Exorista larvarum* Linnaeus.
- moneta* Walker, 1849: 904 (*Musca*). France? Lapland? T ♀ BMNH. Sarcophagidae, *Ravinia moneta* Walker.
- monoculus* Swederus, 1787: 287 (*Musca*). North America. T A Unknown. Syrphidae.
- morio* Linnaeus, 1758a: 590 (*Musca*). Europe. T A LSL. Bombyliidae, *Hemipenthes morio* Linnaeus. 1 sp. in LSL (Dear MS).
- morio* Fabricius, 1794: 275 (*Rhagio*). Germany. T A UZMC F. Sciaridae, *Bradysia forcipata* Fabricius.
- mortisequa* Kirby, 1837: 316 (*Musca*). Alaska ["North America, lat. 65°"]. T A Unknown. Calliphoridae, *Cynomya cadaverina* Robineau-Desvoidy.
- mortuorum* Linnaeus, 1761: 452 (*Musca*). Sweden. T A LSL. Calliphoridae, *Cynomya mortuorum* Linnaeus. 1 sp. in LSL (Dear MS).
- muliebris* Harris, 1780: 75, pl. 21, fig. 9 (*Musca*). England. T A Unknown. Pallopteridae, *Palloptera muliebris* Harris.
- mulinus* Harris, 1780: index (*Musca*). Incosp. *mellinus* Harris (1780: 74). Dryomyzidae. Name status by present revision.
- mulsus* Harris, 1780: 116, pl. 34, fig. 20 (*Musca*). England. T A Unknown. Lauxaniidae.
- multispina* Awati, 1916b: 138 (*Musca*). India. ST ♀ CRIC. Muscidae, *Musca domestica* Linnaeus.
- munda* Wiedemann, 1830: 398 (*Musca*). Java. T ♀ UZMC. Calliphoridae, *Isomyia viredaurea* Wiedemann.
- munroi* Patton, 1936: 487, fig. 11 (*Musca*). South Africa, Natal, Prospect. ST ♂ UNKNOWN. Muscidae, *Musca munroi* Patton. See Pont 1990: 167.
- muralis* Walker, 1849: 888 (*Musca*). Ontario, St. Martin's Falls. HT ♀ BMNH. Calliphoridae, *Lucilia illustris* Meigen. [teste Pont].
- muraria* Scopoli, 1763: 338 (*Musca*). Carniola. T A DESTROY.
- murina* Schrank, 1776: 95 (*Musca*). Austria, Linz. T A Unknown. Syrphidae.
- murorum* Turton, 1801: 641 (*Musca*). Subsequent Usage of *Syrphus murorum* Fabricius. Syrphidae, *Eristalis murorum* Fabricius.

- muscaria* Turton, 1801: 631 (*Musca*). Subsequent Usage of *Stratiomys muscaria* Fabricius. Stratiomyidae, *Oxycera muscaria* Fabricius.
- mussitans* Gmelin, 1790: 2867 (*Musca*). Subsequent Usage of *Syrphus mussitans* Fabricius. Syrphidae, *Arctophila superbiens* Müller.
- mutabilis* Linnaeus, 1758a: 592 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Microdon mutabilis* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 157.
- mutabilis* Fabricius, 1787: 331 (*Stratiomys*). Cayenne. T A UZMC F. Stratiomyidae, *Hoplitimyia mutabilis* Fabricius.
- mutata* Fallén, 1825: 92 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Lophosceles mutatus* Fallén. Lectotype designated by Pont 1984: 290.
- myennis* Coquebert, 1798: (*Musca*). France. T A MNHNP. Otitidae.
- myopina* Fallén, 1824: 65 (*Musca*). Sweden, Skåne, Lund. LT ♂ NRS. Anthomyiidae, *Myopina myopina* Fallén. Lectotype designated by Michelsen 1983: 114.
- mystacea* Linnaeus, 1758a: 591 (*Musca*). Europe. HT ♀ LSL. Muscidae, *Mesembrina mystacea* Linnaeus. See Pont 1981: 172.
- naevia* Gmelin, 1790: 2879 (*Musca*). Europe. T A NMI. Syrphidae, *Milesia semilucifera* de Villers.
- naevosus* Harris, 1780: 75, pl. 21, fig. 10 (*Musca*). England. T A Unknown. Platystomatidae.
- nana* Stephens, 1829a: 60 (*Musca*). *Nomen nudum*. England. T A BMNH. Calliphoridae.
- nana* Meigen, 1830: 375 (*Musca*). Germany, Berlin District. HT ♀ Lost. Muscidae, *Musca tempestiva* Fallén. See Pont 1986b: 232.
- nana* Meigen, 1838: 306 (*Musca*). Subsequent Usage of *Nitellia nana* Robineau-Desvoidy. Calliphoridae, *Pollenia rudis* Fabricius.
- nancauriensis* Schiner, 1868: 306 (*Musca*). *Nomen nudum*. Nicobar Is. T ♂ NMW. Muscidae, *Musca domestica* Linnaeus. Published in synonymy, not subsequently validated by usage. Proposed in synonymy with *domestica* Linnaeus.
- napobrassicae* Bjerkander, 1780: 196 (*Musca*). Sweden. T A UNKNOWN. Anthomyiidae, *Delia radicum* Linnaeus.
- nasatus* Harris, 1780: 105, pl. 32, fig. 35 (*Musca*). England. T A Unknown. Syrphidae, *Rhingia* sp.
- nasuta* Schrank, 1781: 475 (*Musca*). Austria, Vienna, Brigittenau. T A Unknown. Chloropidae, *Chlorops pumilionis* Bjerkander.
- natalensis* Villeneuve, 1916: 512 (*Musca*). South Africa, Natal, Durban. ST ♂ SAMCT. Muscidae, *Musca gabonensis* Macquart.
- natans* Turton, 1801: 639 (*Musca*). Subsequent Usage of *Syrphus natans* Fabricius. Syrphidae, *Merodon natans* Fabricius.
- navus* Harris, 1780: 109, pl. 33, fig. 50 (*Musca*). England. T A Unknown. Syrphidae, *Platycheirus* sp.
- nebulo* Fabricius, 1794: 321 (*Musca*). India Orientali. T A DESTROY. Muscidae, *Musca domestica* Linnaeus. See Michelsen 1979a: 187.
- nebulosa* Panzer, 1798b: 20 (*Musca*). Germany, Nuremberg. T ♂ ZMHU. Tachinidae, *Allophora obesa* Fabricius.
- nebulosa* Lamarck, 1816: 363 (*Musca*). Subsequent Usage of *Musca nebulosa* Panzer. Tachinidae, *Allophora obesa* Fabricius.
- nectarea* Linnaeus, 1767: 983 (*Musca*). Europe. T A LSL. Scatopsidae, *Scatopse notata* Linnaeus. 1 sp. in LSL (Dear MS).

- nectareus* Fabricius, 1787: 341 (*Syrphus*). Denmark. T A UZMC. Syrphidae, *Episyrphus cannabina* Scopoli.
- nectarina* Gmelin, 1790: 2876 (*Musca*). N. n. *Musca nectareus* Fabricius. Syrphidae, *Episyrphus cannabina* Scopoli.
- nectarivora* Turton, 1801: 656 (*Musca*). N. n. *Musca nectarea* Linnaeus. Scatopsidae, *Scatopse notata* Linnaeus.
- negriabdomina** Awati, 1916b: 138 (*Musca*). India. HT A CRIK. Muscidae, *Musca negriabdomina* Awati.
- memorum* Linnaeus, 1758a: 591 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Eristalis arbustorum* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 158.
- memorum* Fallén, 1823: 55 (*Musca*). Sweden, Skåne. LT ♂ NRS. Muscidae, *Phaonia incana* Wiedemann. Preocc. Linnaeus 1758. Lectotype designated by Pont 1984: 290.
- neustriae** Ratzeburg, 1844: 173 (*Musca*). Germany. T A Unknown. Tachinidae, *Tachina neustriae* Ratzeburg.
- nevilli** Kleynhans, 1987: 115, fig. 1 (*Musca*). South Africa, N Transvaal, 15 km N of Pretoria, Farm "Kaalplaas". HT ♂ NCIP. Muscidae, *Musca nevilli* Kleynhans.
- nigra* Linnaeus, 1764a: 285 (*Musca*). *Nomen nudum*. [Sweden]. Chloropidae, *Oscinella frit* Linnaeus. Published in non-binominal work. N. **Syn.**
- nigra* Forskål, 1775: 24 (*Musca*). Arabia. T A Unknown. Syrphidae, *Ischiodon* sp.
- nigra* de Villers, 1789a: 432 (*Musca*). Subsequent Usage of *Volucella nigra* Geoffroy.
- nigra* de Villers, 1789a: 420 (*Musca*). Subsequent Usage of *Nemotelus niger* De Geer. Scenopinidae, *Scenopinus niger* De Geer.
- nigrana* Turton, 1801: 643 (*Musca*). N. n. *Syrphus nigrata* Fabricius. Syrphidae, *Sterphus jamaicensis* Gmelin.
- nigricans* de Villers, 1789a: 509 (*Musca*). Sweden? T A Unknown. Anisopodidae, *Sylvicola fuscatus* Fabricius. N. **Syn.**
- nigricans* Gmelin, 1790: 2836 (*Musca*). Europe. T A NMI. Stratiomyidae, *Odonatomyia microleon* Linnaeus. Preocc. de Villers 1789.
- nigricans* Robineau-Desvoidy, 1830: 394 (*Sphora*). Australia. T A DESTROY. Muscidae, *Musca domestica* Linnaeus.
- nigricans* Macquart, 1835: 268 (*Musca*). Subsequent Usage of *Sphora nigricans* Robineau-Desvoidy. Muscidae, *Musca domestica* Linnaeus.
- nigriceps* Walker, 1849: 881 (*Musca*). Subsequent Usage of *Lucilia nigriceps* Macquart. Calliphoridae, *Lucilia nigriceps* Macquart.
- nigricolor** Fallén, 1825: 81 (*Musca*). Sweden, Skåne. HT ♂ ZIL. Muscidae, *Hebecnema nigricolor* Fallén. See Pont 1984: 290.
- nigricornis** Fabricius, 1794: 331 (*Musca*). India Orientali. T A UNKNOWN. Tachinidae.
- nigricurris* Rainbow, 1897: 98 (*Ebenia*). Ellice Is, Funafuti Atoll, Tuvalu. HT ♂ AMS. Muscidae, *Musca vetustissima* Walker. See Pont 1968: 90.
- nigrina** Fallén, 1817: 241 (*Musca*). Sweden. T A NRS. Tachinidae, *Thelaira nigrina* Fallén. N. **Status**
- nigrina* Meigen, 1838: 305 (*Musca*). Germany, Stolberg. HT ♂ MNHNP. Calliphoridae, *Pollenia amentaria* Scopoli. Preocc. Fallén 1817. See Rognes 1991a: 221.
- nigripennis** Fabricius, 1794: 346 (*Musca*). France. T A UNKNOWN. Phaeomyiidae, *Pelidnoptera nigripennis* Fabricius.
- nigripes** Gmelin, 1790: 2859 (*Musca*). Europe. T A NMI. Tachinidae?



- nigripes* Fabricius, 1794: 341 (*Musca*). France. T A MNHNP. Dolichopodidae, *Chrysotus laesus* Wiedemann. Preocc. Gmelin 1790. N. Syn.
- nigripes* Fabricius, 1794: 319 (*Musca*). Germany. T A UZMC F. Tachinidae, *Thelaira nigrina* Fallén. Preocc. Gmelin 1790. N. Comb.
- nigripilis* Gmelin, 1790: 2859 (*Musca*). Europe. T A NMI.
- nigrita* Scopoli, 1763: 328 (*Musca*). Idrija. T A DESTROY. Sarcophagidae, *Nyctia halterata*? Panzer.
- nigrita* Fabricius, 1781: 427 (*Syrphus*). Jamaica. T A Unknown. Syrphidae, *Sterphus jamaicensis* Gmelin. Preocc. Scopoli 1763.
- nigrita* Gmelin, 1790: 2832 (*Musca*). Subsequent Usage of *Bibio nigritus* Fabricius. Bombyliidae, *Thyridanthrax fenestratus* Fallén.
- nigrita* Fallén, 1823: 60 (*Musca*). Sweden, Gotland, Kjellunge. HT ♂ Lost. Muscidae, *Hebecnema vespertina* Fallén. Preocc. Scopoli 1763. See Pont 1984: 290.
- nigrithorax* Stein, 1909: 212 (*Musca*). Java, Semarang. LT ♂ ITZA. Muscidae, *Musca ventrosa* Wiedemann. Lectotype designated by Pont 1970a: 96.
- nigromarginata* Stephens, 1829a: 60 (*Musca*). *Nomen nudum*. England. T A BMNH. Calliphoridae.
- nitens* de Villers, 1789a: 549 (*Musca*). Southern France. T A Author. Syrphidae, *Ferdinanda cuprea* Scopoli.
- nitens* Zetterstedt, 1845: 1340 (*Musca*). N. n. *Musca vespillo sensu* Meigen. Sweden. LT ♂ ZIL. Calliphoridae, *Pollenia amentaria* Scopoli. Preocc. de Villers 1789. Lectotype designated by Rognes 1991a: 221.
- nitescens* Walker, 1861d: 302 (*Musca*). Aru Islands, Makian. T ♀ BMNH. Calliphoridae, *Lucilia papuensis* Macquart.
- nitida* Wiedemann, 1830: 410 (*Musca*). *Nomen nudum*. T A NMW. Muscidae, *Morellia nigricosta* Hough. Published in synonymy, not subsequently validated by usage. Proposed in synonymy with *violacea* Fabricius.
- nivalis* Bjerkander, 1777: 34 (*Musca*). Sweden. T A UNKNOWN.
- niveisquama* Thomson, 1868: 547 (*Musca*). China, Philippines, Singapore. T A NRS. Muscidae, *Musca sorbens* Wiedemann.
- nobilis* Gmelin, 1790: 2829 (*Musca*). N. n. *Bibio nobilitata* Fabricius. Therevidae, *Thereva nobilitata* Fabricius.
- nobilis* Meigen, 1826: 56 (*Musca*). Germany. ST ♂ ♀ NMW. Calliphoridae, *Lucilia sericata* Meigen. Preocc. Gmelin 1790. See Collin 1926: 259.
- nobilis* Gistel, 1856: 430 (*Musca*). *Nomen nudum*. Egypt. T A UNKNOWN. Published without diagnosis or indication.
- nobilitata* Linnaeus, 1767: 995 (*Musca*). Europe. T A LSL. Dolichopodidae, *Poecilobothrus nobilitatus* Linnaeus. 3 sp. in LSL (Dear MS).
- nobilitata* Fabricius, 1775: 757 (*Bibio*). Denmark. T A UZMC F. Therevidae, *Thereva nobilitata* Fabricius.
- noctiluca* Linnaeus, 1758a: 593 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Pipiza noctiluca* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 158.
- nora* Walker, 1849: 910 (*Musca*). France & Lapland. LT ♂ BMNH. Muscidae, *Myospila meditabunda* Fabricius. Lectotype designated by Pont 1970b: 111.
- norwegica* Gmelin, 1790: 2865 (*Musca*). N. n. *Rhagio fasciatus* Fabricius. Rhagionidae.
- nosatus* Harris, 1780: 105 (*Musca*). Incomp. *nasatus* Harris. Syrphidae, *Rhingia* sp.

- notata** Fabricius, 1781: 448 (*Musca*). England. T A Yeats. Dolichopodidae, *Scellus notatus* Fabricius.
- notata** Estlund, 1796: 130 (*Musca*). Sweden, Elfkarlby. T A UNKNOWN. Preocc. Fabricius 1781.
- notata** Fallén, 1823: 62 (*Musca*). Sweden, Skåne, Äsperöd. LT ♂ NRS. Muscidae, *Linnophora tigrina* Am Stein. Preocc. Fabricius 1781. Lectotype designated by Pont 1984:291.
- nova** Schrank, 1776: 93 (*Musca*). Austria. T A Unknown. Syrphidae, *Microdon* sp.
- novemmaculata** de Villers, 1789b: cxxxvii (*Musca*). N. n. *Musca tuberculata* de Villers [1789a: 428]. Bibionidae, *Dilophus novemmaculatus* de Villers. Published as *9-maculata*.
- novemmaculata** Gmelin, 1790: 2862 (*Musca*). Europe. T A NMI. Preocc. de Villers 1789.
- novempunctata** Gmelin, 1790: 2862 (*Musca*). Europe. T A NMI.
- nugator** Harris, 1780: 120, pl. 35, fig. 36 (*Musca*). Incosp. *nugator* Harris. Muscidae, *Phaonia rufiventris* Scopoli.
- nugator** Harris, 1780: index (*Musca*). England. T ♀ Unknown. Muscidae, *Phaonia rufiventris* Scopoli.
- obesa** Gmelin, 1790: 2868 (*Musca*). Subsequent Usage of *Syrphus obesus* Fabricius. Syrphidae, *Ornidia obesa* Fabricius.
- obfuscata** Gmelin, 1790: 2880 (*Musca*). N. n. *Conops fuscus* Scopoli. Syrphidae, *Eristalis interrupta* Poda.
- obscœna** Eschscholtz, 1822: 113 (*Musca*). Alaska, "Insel Unalasccha, an der Meeresküste". T A Unknown. Calliphoridae, *Calliphora vomitoria* Linnaeus.
- obscura** Fabricius, 1794: 315 (*Musca*). Germany. HT ♂ UZMC F. Calliphoridae, *Pollenia rudis* Fabricius. See Rognes 1987: 496.
- obscura** Meigen, 1830: 374 (*Musca*). Germany, Berlin. T A MNHNP. Calliphoridae. Preocc. Fabricius 1794.
- obscura** Walker, 1853b: 346 (*Musca*). Senegal. T ♂ BMNH. Muscidae, *Pyrellina distincta* Walker. Preocc. Fabricius 1794.
- obscura** Pont, 1968: 89 (*Degeeria*). Ellice Island, Funafuti Atoll, Tuvalu. ST ♀ AMS. Muscidae, *Musca domestica* Linnaeus. Published in synonymy, not subsequently validated by usage. Rainbow MS name cited in synonymy with *domestica* Linnaeus.
- obscurata** Walker, 1858b: 105 (*Musca*). Moluccas, Aru Islands. T ♀ Lost. Calliphoridae, *Onesia obscurata* Walker. Types not in BMNH (Pont).
- obsidianus** Harris, 1776: 37, pl. 9, fig. 8 (*Musca*). England. T ♀ Unknown. Tachinidae, *Zophomyia temula* Scopoli.
- obsoleta** Fallén, 1817: 238 (*Musca*). Sweden. LT ♀ NRS. Sarcophagidae, *Sarcophila latifrons* Fallén. Lectotype designated by Pape 1986: 305.
- obtrusa** Walker, 1858b: 105 (*Musca*). Aru Islands. LT ♀ BMNH. Muscidae, *Neomyia timorensis* Robineau-Desvoidy. Lectotype designated by Pont 1966: 94.
- obtusipennis** Fallén, 1823: 57 (*Musca*). Sweden, Skåne, Äsperöd. LT ♂ NRS. Muscidae, *Helina obtusipennis* Fallén. Lectotype designated by Pont 1984: 291.
- occidentis** Walker, 1853b: 347 (*Musca*). United States. T ♀ BMNH. Muscidae, *Eudasyphora cyanicolor* Zetterstedt. Preocc. Walker 1853: 332.
- occidentis** Walker, 1853b: 332 (*Musca*). United States. HT ♂ BMNH. Muscidae, *Stomoxys calcitrans* Linnaeus. See Pont 1990: 167.

- occidua** Fabricius, 1794: 315 (*Musca*). West Indies. T A UZMC F. Sarcophagidae, *Tricharaea occidua* Fabricius. See Pape 1986: 302.
- oceanica** Le Guillou, 1842: 316 (*Musca*). Tasmania, Hobart. LT ♂ MNHNP. Muscidae, *Musca domestica* Linnaeus. Lectotype designated by Pont 1973: 170.
- ochracea** Ratzeburg, 1840: 125 (*Musca*). Germany. Tachinidae, *Zenillia fulva* Fallén.
- ochrapsus** Rathvon, 1855: 10 (*Musca*). Pennsylvania, Lancaster. T A Unknown. Chyromyidae, *Chyromya flava* Linnaeus.
- ochricornis** Wiedemann, 1830: 408 (*Musca*). Brazil. T A ZMHU NMW. Muscidae, *Morellia ochricornis* Wiedemann.
- ochroleuca** Gmelin, 1790: 2878 (*Musca*). Europe. T A NMI. Syrphidae.
- ochroptera** Gmelin, 1790: 2860 (*Musca*). Europe. T A NMI.
- ochropus** Turton, 1801: 635 (*Musca*). N. n. *Musca flavipes* Fabricius. Therevidae, *Dialineura anilis* Linnaeus.
- octopunctata** Coquebert, 1798: 145 (*Musca*). France, Reims. T A MNHNP. Otitidae, *Myennis octopunctata* Coquebert.
- ocymi** Turton, 1801: 651 (*Musca*). Subsequent Usage of *Syrphus ocymi* Fabricius. Syrphidae, *Platycheirus granditarsus* Forster.
- oenopota** Scopoli, 1763: 337 (*Musca*). Carniola. T A DESTROY. Drosophilidae, *Drosophila funebris?* Fabricius.
- oestracea** Linnaeus, 1758a: 592 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Eristalis oestracea* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 158.
- oleae** Gmelin, 1790: 2844 (*Musca*). France & Italy. T A Unknown. Tephritidae, *Dacus oleae* Rossi. Preocc. Rossi 1790.
- oleae** Rossi, 1790: 317 (*Musca*). Italy, Tuscany, Firenze & Pisa. T A ZMHU. Tephritidae, *Dacus oleae* Rossi.
- oleae** Petagna, 1792: 685 (*Musca*). Italy, Calabria. T A UNKNOWN. Tephritidae, *Dacus oleae* Rossi. Preocc. Rossi 1790.
- oleae** Fabricius, 1794: 349 (*Musca*). Subsequent Usage of *Musca oleae* Rossi. Tephritidae, *Dacus oleae* Rossi.
- olens** Fuesslin, 1775: 54 (*Musca*). Switzerland, Utlberg. T A Unknown. Xylophagidae, *Coenomyia ferruginea* Scopoli. N. Syn.
- olivacea** Meigen, 1838: 308 (*Musca*). Subsequent Usage of *Pollenia olivacea* Macquart. Calliphoridae, *Pollenia rudis* Fabricius.
- onopordinis** Fabricius, 1775: 787 (*Musca*). Denmark. T A UZMC F. Tephritidae, *Euleia heraclii* Linnaeus.
- oppidana** Scopoli, 1763: 349 (*Musca*). Carniola. T A DESTROY. Chyromyidae, *Chyromya oppidana* Scopoli.
- optata** Walker, 1859: 137 (*Musca*). Sulawesi, Makassar. T ♂ BMNH. Muscidae, *Neomyia diffidens* Walker.
- opulenta** Walker, 1858b: 104 (*Musca*). Moluccas, Aru Islands. HT ♀ BMNH. Calliphoridae, *Platytropesa auriceps* Macquart. See Crosskey 1965: 85.
- oratoria** Turton, 1801: 614 (*Musca*). Emend. *aratoria* Fabricius. Sciomyzidae, *Ilione albiseta* Scopoli.
- orbiculata** Geoffroy, 1785: 484 (*Musca*). France, Paris. T A Author.
- orbiculus** Gmelin, 1790: 2875 (*Musca*). Subsequent Usage of *Syrphus orbiculus* Fabricius. Acroceridae, *Acrocera orbiculus* Fabricius.
- orientalis** Walker, 1849: 870 (*Musca*). Subsequent Usage of *Lucilia orientalis* Macquart. Calliphoridae, *Chrysomya rufifacies* Macquart.

- orior Harris, 1780: 143, pl. 42, fig. 48 (*Musca*). England. Calliphoridae, *Protophormia terraenovae* Robineau-Desvoidy. Name improperly formed (verb).
- ornate Harris, 1780: 146, pl. 43, fig. 84 (*Musca*). England. T A Unknown. Muscidae, *Azelia nebulosa* Robineau-Desvoidy. Name improperly formed (adverb).
- ornithovora Scopoli, 1763: 342 (*Musca*). Carniola. T A DESTROY. Piophilidae?
- osiris Wiedemann, 1830: 420 (*Musca*). Egypt. HT ♂ NMW. Muscidae, *Musca osiris* Wiedemann. See Pont 1986b: 251.
- ovipara Portschinsky, 1910: 25, fig. 21 (*Musca*). European Russia. ST ♂ ♀ ASL. Muscidae, *Musca autumnalis* De Geer.
- pabulorum Fallén, 1817: 252 (*Musca*). Sweden. LT ♀ ZIL. Muscidae, *Muscina prolapsa* Harris. Lectotype designated by Pont 1984: 291.
- pacifica Gmelin, 1790: 2872 (*Musca*). N. n. *Syrphus cingulatus* Fabricius. Syrphidae, *Helophilus cingulatus* Fabricius.
- pagana Fabricius, 1794: 326 (*Musca*). Denmark. LT ♂ UZMC. Muscidae, *Mydaea corni* Scopoli. Preocc. Harris 1780. Lectotype designated by Michelsen 1979a: 187.
- paganus Harris, 1780: 153, pl. 45, fig. 84 (*Musca*). England. T A Unknown. Scathophagidae.
- pallens Walker, 1849: 868 (*Musca*). Subsequent Usage of *Bengalia pallens* Robineau-Desvoidy. Calliphoridae, *Bengalia labiata* Robineau-Desvoidy.
- pallida Fabricius, 1787: 344 (*Musca*). Denmark, Copenhagen. LT ♂ UZMC F. Muscidae, *Phaonia pallida* Fabricius. Lectotype designated by Michelsen 1979a: 187.
- pallida de Villers, 1789a: 509 (*Musca*). Sweden, "Oelandica". T A Unknown. Preocc. Fabricius 1787.
- pallipes Gmelin, 1790: 2834 (*Musca*). Subsequent Usage of *Stratiomys pallipes* Fabricius. Stratiomyidae, *Stratiomys pallipes* Fabricius.
- pallipes Fabricius, 1794: 340 (*Musca*). Germany. T A UZMC F. Dolichopodidae, *Syntormon pallipes* Fabricius.
- palmipes Rossi, 1794: 74 (*Musca*). Italy. T A ZMHU. Platypezidae, *Platypeza fasciata*? Meigen.
- palpator Harris, 1780: 119, pl. 35, fig. 37 (*Musca*). England. T A Unknown. Sepsidae, *Orygma* sp.
- palustris Scopoli, 1763: 345 (*Musca*). Carniola. T A DESTROY. Syrphidae.
- pampasiana Bigot, 1888: 607 (*Musca*). Argentina, Buenos Aires. HT ♂ BMNH. Muscidae, *Musca domestica* Linnaeus. See Pont 1990: 167.
- pandia Walker, 1849: 898 (*Musca*). France? HT ♀ BMNH. Calliphoridae, *Bellardia pandia* Walker. See Schumann 1974: 253.
- pantherina Linnaeus, 1758a: 590 (*Musca*). Sweden. T A LSL. Stratiomyidae, *Nemotelus pantherinus* Linnaeus. 1 sp. in LSL (Dear MS).
- papatasi Gmelin, 1790: 2866 (*Musca*). Subsequent Usage of *Biblio papatasi* Scopoli. Psychodidae, *Phlebotomus papatasi* Scopoli.
- paralleli Harris, 1782: 42 (*Musca*). Missp. *parralleli* Harris. Syrphidae, *Eristalis arbustorum* Linnaeus.
- parallelus Harris, 1776: 57, pl. 1, fig. 8 (*Musca*). England. T A Unknown. Syrphidae, *Helophilus parallelus* Harris.
- parasitica Hartig, 1838: 301 (*Musca*). Germany, Brunswick. T A UNKNOWN. Tachinidae.



- parcus* Harris, 1780: 144, pl. 42, fig. 56 (*Musca*). England. T A Unknown. Rhinophoridae, *Rhinophora lepida* Meigen.
- parietina* Linnaeus, 1758a: 599 (*Musca*). Europe. T A LSL. Tephritidae, *Oxya parietina* Linnaeus. See White 1987: 104.
- parralleli* Harris, 1776: 43, pl. 10, fig. 7 (*Musca*). England. T A Unknown. Syrphidae, *Eristalis arbustorum* Linnaeus.
- parrallelus* Harris, 1780: index (*Musca*). Missp. *parallelus* Harris. Syrphidae, *Helophilus parallelus* Harris.
- parrelleli* Harris, 1776: 43 (*Musca*). Incomp. *parralleli* Harris. Syrphidae, *Eristalis arbustorum* Linnaeus. Name revised by Goffe 1946: 74.
- parviceps* Zetterstedt, 1845: 1325 (*Musca*). *Nomen nudum*. Muscidae, *Pyrellia rapax* Harris. Published in synonymy, not subsequently validated by usage. Proposed in synonymy with *aenea* Zetterstedt.
- parvula* Fallén, 1825: 75 (*Musca*). Sweden, Skåne, Äsperöd. LT ♀ ZIL. Anthomyiidae, *Subhylemyia longula* Fallén. Preocc. Harris 1776. Lectotype designated by Michelsen 1983: 114.
- parvula* Meigen, 1826: 55 (*Musca*). Germany. ST ♂ NMW. Calliphoridae, *Lucilia illustris* Meigen. Preocc. Harris 1776. See Collin 1926: 259.
- parvulus* Harris, 1776: 48, pl. 11, fig. 11 (*Musca*). England. T ♀ Unknown. Stratiomyidae, *Microchrysa polita* Linnaeus.
- pascuorum* Meigen, 1826: 74 (*Musca*). Germany, probably Stolberg. LT ♀ MNHNP. Muscidae, *Muscina pascuorum* Meigen. Lectotype designated by Pont 1986b: 236.
- patersoni* Zielke, 1971c: 133 (*Musca*). Zaire, P. N. A. Mubiliba. HT ♂ SAIMR. Muscidae, *Musca patersoni* Zielke.
- patiens* Walker, 1858: 106 (*Musca*). Moluccas, Aru Islands. T ♀ BMNH. Calliphoridae, *Polleniopsis patiens* Walker.
- pattoni* Austen, 1910: 115 (*Musca*). India, Madras, Saidapet, Guindy. LT ♂ BMNH. Muscidae, *Musca pattoni* Austen. Lectotype designated by Pont 1990: 168.
- pavida* Illiger, 1807: 465 (*Musca*). Germany. T A ZMHU. Tachinidae.
- pedella* Fallén, 1825: 88 (*Musca*). Sweden, Skåne, Äsperöd. LT ♀ NRS. Muscidae, *Coenosia pedella* Fallén. Lectotype designated by Pont 1984: 291.
- pedissequus* Harris, 1776: 61, pl. 15, fig. 19 (*Musca*). England. T A Unknown. Syrphidae, *Xanthogramma pedissequum* Harris.
- pedo* Harris, 1780: 115, pl. 34, fig. 15 (*Musca*). England. T A Unknown. Micropezidae.
- pellita* Forster, 1770: 15 (*Musca*). Subsequent Usage of *Tabanus pellitus* Sulzer. Tabanidae, *Heptatoma pellucens* Fabricius.
- pellucens* Linnaeus, 1758a: 595 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Volucella pellucens* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 159.
- pellucens* Meigen, 1835: 71 (*Musca*). Germany, Bavaria, Munich. HT ♀ DESTROY. Muscidae, *Musca domestica* Linnaeus. Preocc. Linnaeus 1758. See Pont 1986b: 237.
- pellucens* Meigen, 1838: 303 (*Musca*). Germany, Bavaria. T ♀ DESTROY. Muscidae, *Musca domestica* Linnaeus. Preocc. Linnaeus 1758.
- pendula* Linnaeus, 1758a: 591 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Helophilus pendulus* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 159.
- pennipes* Forster, 1770: 15 (*Musca*). *Nomen nudum*. England. T A UNKNOWN.

- pennipes** Fabricius, 1781: 450 (*Musca*). North America. HT ♂ UZMC F. Tachinidae, *Trichopoda pennipes* Fabricius. See Townsend 1931a: 83.
- peragro** Harris, 1780: 119, pl. 35, fig. 29 (*Musca*). England. T A Unknown. Micropezidae. Name improperly formed (verb).
- percussus** Harris, 1780: 120, pl. 35, fig. 37 (*Musca*). England. T A Unknown. Psilidae.
- perelegand** Harris, 1780: 74, pl. 21, fig. 5 (*Musca*). England. T A Unknown. Tephritidae, *Trypeta zoe* Meigen.
- perelegans** Harris, 1782: index (*Musca*). Missp. *perelegand* Harris. Tephritidae, *Trypeta zoe* Meigen.
- perexilis** Harris, 1780: 81, pl. 24, fig. 24 (*Musca*). England. T A Unknown. Syrphidae, *Baccha perexilis* Harris.
- perexillis** Harris, 1780: index (*Musca*). Incosp. *perexilis* Harris. Syrphidae, *Baccha perexilis* Harris. Name status by present revision.
- perfixa** Walker, 1856a: 26 (*Musca*). Malaysia, Mt. Ophir. T ♀ BMNH. Muscidae, *Neomyia diffidens* Walker.
- perlata** Walker, 1861a: 314 (*Musca*). South Africa, Natal. T ♀ BMNH. Calliphoridae, *Pericallimyia perlata* Walker.
- permundus** Harris, 1782: index (*Musca*). Missp. *purmundus* Harris. Tephritidae, *Anomoia purmundus* Harris.
- pernix** Harris, 1780: 84, pl. 25, fig. 13 (*Musca*). England. T A Unknown. Sarcophagidae, *Ravinia pernix* Harris.
- personata** Geoffroy, 1785: 476 (*Musca*). France, Paris. T A Author. Preocc. Harris 1780.
- personatus** Harris, 1780: 79, pl. 24, fig. 20 (*Musca*). England, London, Stepney. T A Unknown. Syrphidae, *Pocota personata* Harris.
- pertinax** Linnaeus, 1764b: 331 (*Musca*). Sweden. T A LSL.
- pervenio** Harris, 1780: 139, pl. 41, fig. 23 (*Musca*). England. Calliphoridae, *Protocalliphora azurea* Fallén. Name improperly formed (verb).
- petiolata** Turton, 1801: 612 (*Musca*). N. n. *Musca compressa* Fabricius. Tachinidae, *Cordyligaster petiolata* Fabricius.
- petronella** Linnaeus, 1758a: 598 (*Musca*). Europe. T A LSL. Micropezidae, *Calobata petronella* Linnaeus. 3 sp. in LSL (Dear MS).
- phalacnarum** Scharfenberg, 1805: 1003 (*Musca*). Germany. T A Unknown. Tachinidae.
- phara** Walker, 1849: 889 (*Musca*). Unknown. T ♀ BMNH. Muscidae, *Neomyia peronii* Robineau-Desvoidy.
- phasiaeformis** Meigen, 1826: 72 (*Musca*). Austria or Southern France. LT ♂ MNHNP. Muscidae, *Musca tempestiva* Fallén. Lectotype designated by Pont 1986b: 238.
- phauda** Walker, 1849: 896 (*Musca*). Galapagos. T ♂ BMNH. Calliphoridae, *Cochliomyia macellaria* Fabricius.
- phellia** Walker, 1849: 884 (*Musca*). North Bengal. T ♀ BMNH. Calliphoridae, *Hemipyrellia pulchra* Wiedemann.
- pica** Fabricius, 1805: 293 (*Musca*). South America. HT ♂ UZMC. Tachinidae, *Rhampchinina pica* Fabricius. See Townsend 1931a: 100.
- picata** Gmelin, 1790: 2862 (*Musca*). Europe. T A NMI.
- picea** Gmelin, 1790: 2860 (*Musca*). Europe. T A NMI.

- piceae* Manuel, 1811: 39 (*Musca*). Emend. *picea* Gmelin.
- picta* Fabricius, 1781: 452 (*Musca*). North America. T A UNKNOWN. Otitidae, *Delphinia picta* Fabricius.
- pigra* Geoffroy, 1785: 499 (*Musca*). France, Paris. T A Author. Chloropidae, *Meromyza saltatrix* Linnaeus. N. Syn.
- pigra* Schrank, 1803: 114 (*Musca*). Germany, Bavaria, Gern & Ingolstadt. T A Unknown. Syrphidae, *Xylota ignava* Panzer. Preocc. Geoffroy 1785.
- pilifacies* Emden, 1965: 58 (*Musca*, as *interrupta* ssp.). Taiwan, Chia-i, U-fen, Mt. Lu-lin. HT ♂ BMNH. Muscidae, *Musca pilifacies* Emden. See Pont 1990: 168.
- pilosa* Drury, 1773: 109 (*Musca*). Jamaica. T A Author. Tachinidae, *Archytas pilosus* Drury.
- pilosa* Bloch, 1776: 176, pl. 4, fig. 16 & 184, pl. 5, fig. 16 (*Musca*). Nomina nuda. While the word *pilosa* is italicized so that *Musca pilosa* appears to be a binomen, Bloch was not describing new species. The word *pilosa* is only the second word of a diagnosis which was set in italics by mistake.
- pilosa* Awati, 1916b: 138 (*Musca*). India. ST ♀ CRIC. Muscidae, *Musca bezzii* Patton & Cragg. Preocc. Drury 1773.
- pinastri* De Geer, 1776: 113, pl. 7, fig. 7 (*Musca*). Sweden. T A NRS. Syrphidae, *Dasysyrphus pinastri* De Geer. The syntypes of *Musca pinastri* are lost. They were not present when the De Geer Collection was accessioned in 1834 (Persson, *in litt.*). However, the species is easily recognized from the figures provided by De Geer. We select as lectotype of *pinastri* the specimen which was figured (De Geer 1776: pl. 7, fig. 1). The lectotype of *lunulatus* Meigen is a dark specimen of *Dasysyrphus venustus* Meigen as was pointed out by Verrall (1901a: 353). *Musca pinastri* De Geer, however, is an available name for *lunulatus* of authors, as pointed out by Lundbeck (1917: 284).
- pinguis* Gmelin, 1790: 2868 (*Musca*). Subsequent Usage of *Syrphus pinguis* Fabricius. Syrphidae, *Meromacrus pinguis* Fabricius.
- pinguis* Fabricius, 1805: 302 (*Musca*). South America. HT ♂ UZMC. Tachinidae, *Winthemia pinguis* Fabricius. See Townsend 1931b: 174.
- piniperdae* Ratzeburg, 1844: 174 (*Musca*). Germany. T A Unknown. Tachinidae, *Gonia picea* Robineau-Desvoidy.
- pinivorae* Ratzeburg, 1844: 173 (*Musca*). Germany. T A Unknown. Tachinidae, *Blondelia nigripes* Fallén.
- pionia* Walker, 1849: 880 (*Musca*). Galapagos. T ♂ BMNH. Calliphoridae, *Lucilia pionia* Walker.
- pipiens* Linnaeus, 1758a: 594 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Syritta pipiens* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 159.
- pipines* Geoffroy, 1785: 486 (*Musca*). Missp. *pipiens* Linnaeus. Syrphidae, *Syritta pipiens* Linnaeus.
- placida* Müller, 1764: 85 (*Musca*). Denmark, Sjaelland, Frederiksdal. T A UNKNOWN. Tephritidae, *Urophora stigma?* Loew.
- placida* Walker, 1853b: 343 (*Musca*). South Australia. T ♂ BMNH. Calliphoridae, *Calliphora dubia* Macquart. Preocc. Müller 1764.
- planiceps* Wiedemann, 1824: 48 (*Musca*). Java. HT ♂ UZMC. Muscidae, *Musca planiceps* Wiedemann. See Townsend 1931c: 369.

- planifrons** Fabricius, 1798: 565 (*Musca*). France, Paris. T A MNHNP. Chloropidae, *Platycephala planifrons* Fabricius.
- plebeja** Linnaeus, 1758a: 589 (*Musca*). Europe. T A LSL. Therevidae, *Thereva plebeja* Linnaeus.
- plebeja** Fabricius, 1781: 440 (*Musca*). Germany, Kiel. T A UZMC F. Tachinidae, *Dexia rustica* Fabricius. Preocc. Linnaeus 1758.
- plombea** de Villers, 1789a: 463 (*Musca*). Missp. *plumbea* Geoffroy.
- plumata** De Geer, 1776: 134, pl. 8, fig. 9 (*Musca*). Sweden. T A NRS. Syrphidae, *Volucella bombylans* Linnaeus.
- plumbea** Geoffroy, 1785: 492 (*Musca*). France, Paris. T A Author.
- plumipes** Scopoli, 1763: 334 (*Musca*). Carniola. T A DESTROY. Dolichopodidae, *Dolichopus plumipes* Scopoli.
- plumosa** Gmelin, 1790: 2868 (*Musca*). Europe. T A NMI. Syrphidae, *Volucella bombylans* Linnaeus.
- pluvialis** Linnaeus, 1758a: 597 (*Musca*). Europe. HT ♂ LSL. Anthomyiidae, *Anthomyia pluvialis* Linnaeus. See Pont 1981: 172.
- podagrica** Gmelin, 1790: 2873 (*Musca*). Subsequent Usage of *Syrphus podagrica* Fabricius. Syrphidae, *Neoascia podagrica* Fabricius.
- poeciloptera** Schrank, 1776: 96, pl. 3, fig. 22 (*Musca*). Austria, Linz. T A Unknown. Tephritidae, *Platyparea poeciloptera* Schrank.
- polisma** Walker, 1849: 878 (*Musca*). Unknown. T ♂ DESTROY. Calliphoridae.
- polita** Linnaeus, 1758a: 598 (*Musca*). Europe. T A LSL. Stratiomyidae, *Microchrysa polita* Linnaeus. 1 sp. in LSL (Dear MS).
- polita** Walker, 1853b: 338 (*Musca*). East Indies. T ♂ BMNH. Muscidae, *Neomyia lauta* Wiedemann. Preocc. Linnaeus 1758.
- polita** Malloch, 1929b: 112 (*Lissasterna*). Namibia, Farm Otjitueza, 66km NE Windhoek. HT ♂ ZSZMH. Muscidae, *Musca lasiophthalma* Thomson. Preocc. Walker 1853. See Zielke 1971c: 109 & 1971d: 174.
- politus** Harris, 1780: 81, pl. 24, fig. 26 (*Musca*). England. T A Unknown. Syrphidae, *Lejogaster metallina* Fabricius. Preocc. Linnaeus 1758.
- pollinosa** Stein, 1909: 211 (*Musca*). Java, Batavia. LT ♂ ITZA. Muscidae, *Musca planiceps* Wiedemann. Lectotype designated by Pont 1970a: 99.
- polyzonias** Lepechin, 1775: 211, pl. 11, fig. 29 (*Musca*). *Nomen nudum*. [Russia]. Bombyliidae. Published in non-binominal work.
- polyzonias** Gmelin, 1790: 2833 (*Musca*). Siberia. T A Unknown. Bombyliidae.
- porca** Latreille, 1804: 196 (*Musca*). France. T A MNHNP. Otitidae, *Otites porca* Latreille. N. Status
- porcina** De Geer, 1776: 98 (*Musca*). N. n. *Musca tenax* Linnaeus. Syrphidae, *Eristalis tenax* Linnaeus.
- porphyrina** Walker, 1856a: 24 (*Musca*). Malaysia, Mt. Ophir. T ♀ BMNH. Calliphoridae, *Lucilia porphyrina* Walker.
- potens** Harris, 1780: 110, pl. 33, fig. 53 (*Musca*). England. T A Unknown. Syrphidae, *Myolepta potens* Harris.
- potentillae** de Villers, 1789a: 510 (*Musca*). Sweden? T A Unknown.
- praeceps** Scopoli, 1763: 333 (*Musca*). Carniola. T A DESTROY. Tachinidae, *Mintho praeceps* Scopoli.
- praecox** Walker, 1864: 236 (*Musca*). North Ceram. HT ♂ BMNH. Muscidae, *Musca conducens* Walker. See Pont 1990: 168.



- praedicens** Walker, 1859b: 139 (*Musca*). Sulawesi, Makasar. T ♀ BMNH. Muscidae, *Graphomya praedicens* Walker.
- praedo** Rossi, 1794: 75 (*Musca*). Italy. T A ZMHU.
- praepotens** Fallén, 1825: 83 (*Musca*). Subsequent Usage of *Anthomyia praepotens* Wiedemann. Anthomyiidae, *Eutrichota praepotens* Wiedemann.
- praecusta** Panzer, 1804: 209 (*Musca*). Germany, Regensburg. T A Unknown.
- prashadii** Patton, 1922b: 69 (*Musca*). India, Koharnag. LT ♂ BMNH. Muscidae, *Musca autumnalis* De Geer. Lectotype designated by Pont 1990: 168.
- prasina** Gmelin, 1790: 2879 (*Musca*). Europe. T A NMI. Syrphidae, *Cheilosia* sp. pratorum Gmelin, 1790: 2870 (*Musca*). Subsequent Usage of *Syrphus pratorum* Fabricius. Syrphidae, *Meromacrus pratorum* Fabricius.
- pratorum** Meigen, 1826: 78 (*Musca*). Germany, probably Stolberg. LT ♂ MNHNP. Muscidae, *Dasyphora pratorum* Meigen. Lectotype designated by Pont 1986b: 240.
- primitiva** Walker, 1849: 903 (*Musca*). China. HT ♀ BMNH. Muscidae, *Musca sorbens* Wiedemann. See Pont 1990: 168.
- princeps** Harris, 1780: 151, pl. 45, fig. 76 (*Musca*). England. T ♀ Unknown. Muscidae, *Mydaea corni* Scopoli.
- prisca** Walker, 1849: 903 (*Musca*). Australia. HT ♀ BMNH. Muscidae, *Musca vetustissima* Walker. See Pont 1973: 148 & 1990: 168.
- procedo** Harris, 1780: 141, pl. 41, fig. 42 (*Musca*). England. Tachinidae. Name improperly formed (verb).
- processionae** Ratzeburg, 1840: 125 (*Musca (Tachina)*). Germany. T A UNKNOWN. Tachinidae, *Carcelia processionae* Ratzeburg.
- processionae** Ratzeburg, 1844: 170 (*Musca (Anthomyia)*). Germany. T A Unknown. Anthomyiidae. Preocc. Ratzeburg 1840.
- prodeo** Harris, 1780: 141, pl. 41, fig. 40 (*Musca*). England. T ♀ Unknown. Muscidae, *Muscina stabulans* Fallén. Name improperly formed (verb).
- prodromaria** Panzer, 1804: 160 (*Musca*). Germany, Regensburg. T A Unknown.
- proerna** Walker, 1849: 888 (*Musca*). Australia. HT ♀ BMNH. Muscidae, *Neomyia lauta* Wiedemann. See Pont 1973: 192.
- proferens** Walker, 1859b: 138 (*Musca*). Sulawesi, Makasar. T ♂ BMNH. Muscidae, *Pyrellia proferens* Walker.
- profuges** Harris, 1780: 81, pl. 24, fig. 25 (*Musca*). England, Essex, West Tilbury. T A Unknown. Syrphidae, *Doros profuges* Harris.
- profugus** Harris, 1782: index (*Musca*). Missp. *profuges* Harris. Syrphidae, *Doros profuges* Harris.
- prolabor** Harris, 1780: 139, pl. 41, fig. 31 (*Musca*). England. T A Unknown. Sarcophagidae, *Sarcophaga* sp. Name improperly formed (verb).
- prolapsa** Harris, 1780: 139, pl. 41, fig. 32 (*Musca*). England. T ♀ Unknown. Muscidae, *Muscina prolapsa* Harris.
- prolapsor** Harris, 1780: index (*Musca*). Incomp. *prolapsa* Harris. Muscidae, *Muscina prolapsa* Harris.
- promano** Harris, 1780: 143, pl. 42, fig. 47 (*Musca*). England. T A Unknown. Tachinidae, *Dufouria chalybeata* Meigen. Name improperly formed (verb).
- promans** Harris, 1780: 143 (*Musca*). Incomp. *promano* Harris. Tachinidae, *Dufouria chalybeata* Meigen. Name status by present revision.

- promisca* Awati, 1916b: 138 (*Musca*). India. ST ♂ ♀ CRIK. Muscidae, *Musca sorbens* Wiedemann.
- promittens** Walker, 1859b: 134 (*Musca*). Sulawesi, Makasar. T A BMNH. Calliphoridae, *Phumosa promittens* Walker.
- properans* Rossi, 1794: 74 (*Musca*). Italy. T A ZMHU. Platypezidae, *Platypeza fasciata?* Meigen.
- prospera* Walker, 1859b: 133 (*Musca*). Sulawesi, Makasar. LT ♀ BMNH. Calliphoridae, *Silbomyia albonotata* Bigot. Lectotype designated by Crosskey 1965: 56.
- prostrata* Scopoli, 1763: 328 (*Musca*). Carniola. T ♀ DESTROY. Muscidae, *Musca autumnalis* De Geer.
- provenio Harris, 1780: 142, pl. 41, fig. 43 (*Musca*). England. T A Unknown. Tachinidae, *Dexia rustica* Fabricius. Name improperly formed (verb).
- proxima* Walker, 1853b: 341 (*Musca*). California. T ♀ BMNH. Calliphoridae, *Phormia regina* Meigen.
- pruinosa* Meigen, 1838: 306 (*Musca*). Subsequent Usage of *Pollenia pruinosa* Macquart. Calliphoridae, *Pollenia rudis* Fabricius.
- pseudocorvina** Emden, 1939: 80 (*Musca*, as *autumnalis* ssp.). Kenya, Aberdare Range, Mt Kinangop. HT ♂ BMNH. Muscidae, *Musca pseudocorvina* Emden. See Pont 1990: 168.
- psyllia** Schrank, 1803: 127 (*Musca*). Germany, Bavaria, Ingolstadt. T A Unknown.
- puber Gmelin, 1790: 2850 (*Musca*). Missp. *pubera* Linnaeus. Scathophagidae, *Cordilura pubera* Linnaeus.
- pubera** Linnaeus, 1758a: 598 (*Musca*). Europe. T A LSL. Scathophagidae, *Cordilura pubera* Linnaeus. 4 sp. in LSL (Dear MS).
- puberula Zetterstedt, 1837: 42 (*Musca*). *Nomen nudum*. [Sweden, Nordlandia, Tromsø]. T ♂ ZIL. Calliphoridae, *Bellardia pubicornis* Zetterstedt.
- puberula* Zetterstedt, 1838: 654 (*Musca*). Norway, Nordlandia, Tromsø. LT ♂ ZIL. Calliphoridae, *Bellardia pubicornis* Zetterstedt. Lectotype designated by Rognes 1991a: 51.
- pubiceps** Zetterstedt, 1845: 1333 (*Musca*). Sweden, Luleå. T A ZIL. Tachinidae, *Macquartia pubiceps* Zetterstedt.
- pudefactus** Harris, 1780: 121, pl. 35, fig. 42 (*Musca*). England. T A Unknown. Anthomyiidae.
- puella* Meigen, 1826: 57 (*Musca*). Germany, probably Kiel. HT ♂ NMW. Muscidae, *Neomyia cornicina* Fabricius. See Pont 1986b: 241.
- pulchella** Müller, 1776: 174 (*Musca*). Denmark. T A Author. Chloropidae, *Chlorops pulchella* Müller. N. Comb.
- pulchella* Rossi, 1790: 314, pl. 8, fig. 6 (*Musca*). Italy, Tuscany, Firenze & Pisa. T A ZMHU. Pallopteridae, *Palloptera muliebris* Harris. Preocc. Müller 1776.
- pulchra** Wiedemann, 1830: 406 (*Musca*). Unknown. T A NMW. Calliphoridae, *Hemipyrellia pulchra* Wiedemann.
- pulicaria** Geoffroy, 1785: 498 (*Musca*). France, Paris. T A Author.
- pulicaria* Schrank, 1803: 126 (*Musca*). Germany, Bavaria. T A Unknown. Preocc. Geoffroy 1785.
- pulla** Gmelin, 1790: 2859 (*Musca*). Europe. T A NMI. Syrphidae.
- pulla* Bezzi, 1911: 92 (*Musca*). South Africa, Pretoria. HT ♂ USNM. Muscidae, *Musca conducens* Walker. Preocc. Gmelin 1790.

- pullata** Müller, 1764: 86 (*Musca*). Denmark, Sjaelland, Frederiksdal. T A DESTROY.
- pumila** Fallén, 1825: 88 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Coenosia pumila* Fallén: Lectotype designated by Pont 1984: 291.
- pumila** Meigen, 1838: 307 (*Musca*). Subsequent Usage of *Pollenia pumila* Robineau-Desvoidy. Calliphoridae, *Pollenia rudis* Fabricius.
- pumila** Macquart, 1848: 218, pl. 6, fig. 12 (*Musca*). Australia. HT ♂ BMNH. Muscidae, *Musca vetustissima* Walker. Preocc. Fallén 1825. See Pont 1990: 168.
- pumilionis** Bjerkander, 1778: 201 (*Musca*). Sweden. T A UNKNOWN. Chloropidae, *Chlorops pumilionis* Bjerkander.
- pumilionis** Banks, 1791: 2 (*Musca*). England. T A BMNH B. Chloropidae, *Chlorops pumilionis* Bjerkander. Preocc. Bjerkander 1778. N. Syn.
- punctata** Poda, 1761: 116 (*Musca*). Austria, Graz. T A Unknown.
- punctata** Müller, 1764: 85 (*Musca*). Denmark. T A DESTROY. Syrphidae, *Eristalinus aeneus* Scopoli. Preocc. Poda 1761.
- punctata** Schrank, 1781: 474 (*Musca*). Austria, Vienna. T A Unknown. Tephritidae, *Orellia stictica* Gmelin. Preocc. Poda 1761. N. Comb.
- punctata** Fabricius, 1794: 347 (*Musca*). Germany, Kiel. T A UZMC F. Sciomyzidae, *Pherbellia schoenherri* Fallén. Preocc. Poda 1761.
- punctata** Walker, 1849: 868 (*Musca*). Subsequent Usage of *Ormia punctata* Robineau-Desvoidy. Tachinidae, *Ormia punctata* Robineau-Desvoidy.
- punctatus** Fabricius, 1787: 333 (*Rhagio*). Germany, Kiel. T A UZMC F. Anisopodidae, *Sylvicola punctatus* Fabricius.
- punctifera** Geoffroy, 1785: 473 (*Musca*). France, Paris. T A Author.
- punctulata** Scopoli, 1763: 338 (*Musca*). Idrija. T A DESTROY. Sciomyzidae, *Trypetoptera punctulata* Scopoli.
- punctulata** Wiedemann, 1819a: 21 (*Musca*). South Africa, Cape of Good Hope. HT ♀ UZMC. Calliphoridae, *Cosmina fuscipennis* Robineau-Desvoidy. Preocc. Scopoli 1763. See Townsend 1931c: 372.
- punctum** Fabricius, 1794: 351 (*Musca*). France. T A MNHNP. Sepsidae, *Sepsis punctum* Fabricius.
- pungens** De Geer, 1776: 78, pl. 4, fig. 12 (*Musca*). N. n. *Conops calcitrans* Linnaeus. Muscidae, *Stomoxys calcitrans* Linnaeus.
- pungoana** Karsch, 1886: 259 (*Musca*). Angola, Pungo Andongo. T ♀ ZMHU. Muscidae, *Musca ventrosa* Wiedemann.
- puparum** Fabricius, 1794: 326 (*Musca*). Germany, Kiel. T A UZMC F. Tachinidae, *Ernestia puparum* Fabricius.
- purmundus** Harris, 1780: 74, pl. 21, fig. 6 (*Musca*). England, Kent, Dartford. T A Unknown. Tephritidae, *Anomoia purmundus* Harris.
- purpurascens** Walker, 1836: 355 (*Musca*). Brazil, Santa Catarina. T ♀ BMNH. Calliphoridae, *Lucilia purpurascens* Walker.
- purpurea** Walker, 1853b: 337 (*Musca*). South America. T ♂ BMNH. Calliphoridae, *Chloroprocta idioidea* Robineau-Desvoidy.
- pusilla** Gmelin, 1790: 2879 (*Musca*). Europe. T A NMI. Syrphidae, *Paragus* sp.
- pusilla** Meigen, 1826: 71 (*Musca*). Germany, Stolberg. LT ♂ MNHNP. Calliphoridae, *Bellardia viarum* Robineau-Desvoidy. Preocc. Gmelin 1790. Lectotype designated by Rognes 1991a: 40. N. Comb.

- pusilla* Macquart, 1848: 219 (*Musca*). Haiti. T ♀ BMNH. Sarcophagidae, *Anapuno-phyto lopesi* Thompson & Pont. Preocc. Gmelin 1790. See Lopes 1975: 541.
- pusilla* Macquart, 1851: 226 (*Musca*). Egypt. T ♂ UMO. Muscidae, *Musca sorbens* Wiedemann. Preocc. Gmelin 1790.
- pusilla* Rondani, 1868: 602 (*Musca*). *Nomen nudum*. Muscidae, *Musca tempestiva* Fallén.
- pusillus* Fabricius, 1794: 271 (*Nemotelus*). India, Tranquebar. T A UZMC F. Stratiomyidae, *Oplodontha minuta* Fabricius.
- putoria* Wiedemann, 1830: 403 (*Musca*). Sierra Leone. T A NMW. Calliphoridae, *Chrysomya chloropyga* Wiedemann.
- putrida** Fabricius, 1775: 775 (*Musca*). America. T A Auction. Calliphoridae. Type(s) originally in collection of Otto Thott.
- putrida* Fabricius, 1794: 316 (*Musca*). West Indies. T A UZMC F. Preocc. Fabricius 1775.
- putris* Linnaeus, 1758a: 597 (*Musca*). Europe. T A LSL. Sepsidae, *Themira putris* Linnaeus. 2 sp. in LSL (Dear MS).
- putris* Geoffroy, 1785: 490 (*Musca*). France, Paris & Sweden? T A Author. Preocc. Linnaeus 1758.
- pyrastri** Linnaeus, 1758a: 594 (*Musca*). Sweden. LT ♂ LSL. Syrphidae, *Scaeva pyrastri* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 159.
- pyrorun* Schrank, 1803: 114 (*Musca*). Germany, Bavaria. T A Unknown. Syrphidae, *Dasysyrphus pinastri* De Geer.
- As Schrank included a reference to *Musca pinastri* De Geer in his definition of *pyrorun*, we select as lectotype of *pyrorun* the specimen illustrated by De Geer (De Geer 1776: pl. 7, fig. 1).
- quadrata** Geoffroy, 1785: 485 (*Musca*). France, Paris. T A Author.
- quadricolor** Gmelin, 1790: 2861 (*Musca*). Europe. T A NML.
- quadrifasciata** Fabricius, 1781: 448 (*Musca*). Germany. T A UZMC F. Dolichopodidae, *Neurigona quadrifasciata* Fabricius.
- quadrifasciata* Geoffroy, 1785: 473 (*Musca*). France, Paris. T A Author. Preocc. Fabricius 1781.
- quadrilineata* Gmelin, 1790: 2835 (*Musca*). Subsequent Usage of *Stratiomys quadrilineata* Fabricius. Stratiomyidae, *Isomero-cera quadrilineata* Fabricius.
- quadrilineata** Lichtenstein, 1796: 216 (*Musca*). India, Coromandel. T A Auction.
- quadrilineata* Fabricius, 1805: 286 (*Musca*). South America. HT A UZMC. Calliphoridae, *Eunesebrinella flavipennis* Macquart. Preocc. Lichtenstein 1796. See Townsend 1931a: 69. N. Syn.
- quadrilineatus* Fabricius, 1787: 336 (*Syrphus*). India, Tranquebar. T A UZMC. Syrphidae, *Eristalinus arvorun* Fabricius.
- quadrimaculata* Fabricius, 1787: 347 (*Musca*). Germany, Kiel. T A UZMC F. Preocc. Swederus 1787.
- quadrimaculata** Swederus, 1787: 289 (*Musca*). New Zealand. HT ♀ BMNH B. Calliphoridae, *Calliphora quadrimaculata* Swederus. See Townsend 1931c: 375; Dear 1985a: 23.
- quadrimaculata* Fallén, 1823: 63 (*Musca*). Sweden, Skåne. LT ♂ NRS. Muscidae, *Helina celsa* Harris. Preocc. Swederus 1787. Lectotype designated by Pont 1984: 292.



- quadrimaculella* Hennig, 1958: 213 (*Helina*). N. n. *Musca quadrimaculata* Fallén. Muscidae, *Helina celsa* Harris.
- quadripunctata** Linnaeus, 1767: 997 (*Musca*). Sweden. NT ♂ LSL. Lauxaniidae, *Sapromyza quadripunctata* Linnaeus. Neotype designation (Yarom 1990: 290).
- quadripustulata** Fabricius, 1794: 324 (*Musca*). Germany. T A DESTROY. Tachinidae, *Winthemia quadripustulata* Fabricius. See Townsend 1932: 48.
- quadristrigata** Donovan, 1808: 72, pl. 467, fig. 3 (*Musca*). England. T A UNKNOWN. Chloropidae, *Chlorops quadristrigata* Donovan. N. Comb.
- quadrum** Fabricius, 1805: 297 (*Musca*). Austria. HT A UZMC F. Muscidae, *Helina quadrum* Fabricius. See Michelsen 1979a: 188.
- quinquefasciata** Geoffroy, 1785: 474 (*Musca*). France, Paris. T A Author.
- quinquelineata** Gmelin, 1790: 2870 (*Musca*). Subsequent Usage of *Syrphus quinquelineatus* Fabricius. Syrphidae, *Eristalinus quinquelineatus* Fabricius.
- quinquepunctata** Schrank, 1781: 473 (*Musca*). Austria. T A Unknown.
- quinquestriata** Turton, 1801: 642 (*Musca*). Subsequent Usage of *Syrphus quinquestriatus* Fabricius. Syrphidae, *Eristalinus quinquestriatus* Fabricius.
- racilia** Walker, 1849: 884 (*Musca*). Sierra Leone. T ♂ BMNH. Muscidae, *Neomyia racilia* Walker.
- radiata** Fabricius, 1798: 565 (*Musca*). France, Paris. T A UZMC F. Tephritidae, *Trupanea radiata* Fabricius.
- radiata** Walckenaer, 1802: 399 (*Musca*). France, Paris. T A Unknown. Tephritidae, *Trupanea radiata* Fabricius. Preocc. Fabricius 1798. Probably the lack of attribution was an error.
- radicum** Linnaeus, 1758a: 596 (*Musca*). Sweden. HT ♂ LSL. Anthomyiidae, *Delia radicum* Linnaeus. See Pont 1981: 173.
- rapax** Harris, 1780: 144, pl. 42, fig. 55 (*Musca*). England. T ♀ Unknown. Muscidae, *Pyrellia rapax* Harris.
- rapax** Gmelin, 1790: 2848 (*Musca*). N. n. *Musca tigrina* Fabricius. Muscidae, *Coenosia tigrina* Fabricius. Preocc. Harris 1780.
- rara** Scopoli, 1763: 339 (*Musca*). Middle Carniola. T A DESTROY. Stratiomyidae, *Oxycera rara* Scopoli.
- rau** Robineau-Desvoidy, 1830: 396 (*Musca*). Missp. *tau* Schrank. Muscidae, *Musca autumnalis* De Geer.
- reccumbo** Harris, 1776: 35, pl. 9, fig. 4 (*Musca*). England. Tachinidae, *Tachina fera* Linnaeus. Name improperly formed (verb).
- recedans** Harris, 1780: 144, pl. 42, fig. 58 (*Musca*). England. T A Unknown. Tachinidae.
- recta** Meigen, 1838: 308 (*Musca*). Subsequent Usage of *Pollenia recta* Macquart. Calliphoridae, *Pollenia rudis* Fabricius.
- recurro** Harris, 1780: 85, pl. 25, fig. 17 (*Musca*). England. Calliphoridae, *Pollenia* sp. Name improperly formed (verb).
- redambulo** Harris, 1780: 141, pl. 41, fig. 38 (*Musca*). England. Tachinidae, *Ernestia* sp. Name improperly formed (verb).
- redeans** Harris, 1782: index (*Musca*). Missp. *redians* Harris. Tachinidae.
- redeo** Harris, 1780: 140, pl. 41, fig. 34 (*Musca*). England. T ♀ Unknown. Muscidae, *Neomyia cornicina* Fabricius. Name improperly formed (verb).
- redians** Harris, 1780: 145, pl. 42, fig. 59 (*Musca*). England. T A Unknown. Tachinidae.

- reditus** Harris, 1780: 146, pl. 43, fig. 61 (*Musca*). England. T A Unknown. Anthomyiidae.
- refixa** Walker, 1856a: 26 (*Musca*). Singapore. T ♀ BMNH. Muscidae, *Neomyia diffidens* Walker.
- reflectens** Walker, 1856a: 24 (*Musca*). Malacca. T ♀ BMNH. Calliphoridae, *Isomyia viredaurea* Wiedemann.
- regalis** Meigen, 1826: 54 (*Musca*). Germany. ST ♂ NMW. Calliphoridae, *Lucilia regalis* Meigen. See Collin 1926: 258.
- regalis** Guérin-Méneville, 1831: , pl. 21, fig. 1 (*Rutilia*). Australia, A.C.T., Tharwa. NT ♂ ANIC. Tachinidae, *Rutilia regalis* Guérin-Méneville. Neotype designated by Crosskey 1973: 126.
- regalis** Guérin-Méneville, 1838: 295 (*Musca*). Subsequent Usage of *Rutilia regalis* Guérin-Méneville. Tachinidae, *Rutilia regalis* Guérin-Méneville.
- regina** Meigen, 1826: 58 (*Musca*). Germany, Stolberg. LT ♂ MNHNP. Calliphoridae, *Phormia regina* Meigen. Lectotype designated by Rognes 1991a: 106. 1st revisor Seguy 1928: 169.
- relictus** Harris, 1780: 120, pl. 35, fig. 35 (*Musca*). England. T A Unknown. Coelopiidae.
- remigro** Harris, 1780: 140, pl. 41, fig. 36 (*Musca*). England. T A Unknown. Calliphoridae, *Pollenia rudis* Fabricius. Name improperly formed (verb).
- remuria** Walker, 1849: 871 (*Musca*). China. T ♀ BMNH. Calliphoridae, *Chrysomya megacephala* Fabricius.
- repens** Harris, 1776: 37, pl. 9, fig. 10 (*Musca*). England. T A Unknown. Tachinidae.
- rerumbo** Harris, 1780: 74 (*Musca*). Missp. *reccumbo* Harris. Tachinidae, *Tachina fera* Linnaeus.
- resinellae** Schrank, 1781: 478 (*Musca*). Austria. T A Unknown. Tachinidae, *Actia nudibasis* Stein.
- resinosa** Presl, 1822: 207 (*Musca*). Ligurian Prussian Amber. T A Unknown.
- restitutio** Harris, 1780: index (*Musca*). Missp. *restitutio* Harris. Muscidae, *Musca autumnalis* De Geer.
- restitutio** Harris, 1776: 36, pl. 9, fig. 5 (*Musca*). England. Muscidae, *Musca autumnalis* De Geer. Name improperly formed (verb).
- reticulata** Fabricius, 1781: 450 (*Musca*). Italy. T A UZMC F. Sciomyzidae, *Pherbina coryleti* Scopoli.
- reticulata** Geoffroy, 1785: 472 (*Musca*). France, Paris. T A Author. Preocc. Fabricius 1781.
- retusa** Fabricius, 1775: 775 (*Musca*). Australia. HT ♀ BMNH B. Tachinidae, *Rutilia retusa* Fabricius. See Crosskey 1973a: 137.
- reversio** Harris, 1780: 146, pl. 43, fig. 62 (*Musca*). England. T ♀ Unknown. Muscidae, *Helina reversio* Harris.
- revertio** Harris, 1780: 140, pl. 41, fig. 35 (*Musca*). England. T A Unknown. Sarcophagidae, *Sarcophaga* sp. Name improperly formed (verb).
- reviso** Harris, 1780: 141, pl. 41, fig. 39 (*Musca*). England. T A Unknown. Calliphoridae, *Protocalliphora azurea* Fallén. Name improperly formed (verb).
- revolo** Harris, 1780: 124, pl. 36, fig. 51 (*Musca*). England. T ♂ Unknown. Muscidae, *Helina impuncta* Fallén. Name improperly formed (verb).
- rex** Poda, 1761: 114 (*Musca*). Austria, Graz. T A Unknown. Stratiomyidae, *Beris* sp.

- ribesii** Linnaeus, 1758a: 593 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Syrphus ribesii* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 159.
- riparia** Fallén, 1824: 67 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Linnophora riparia* Fallén. Lectotype designated by Pont 1984: 292.
- riparia** Robineau-Desvoidy, 1830: 398 (*Musca*). France. T ♀ DESTROY. Muscidae, *Musca autumnalis* De Geer. Preocc. Fallén 1824.
- rivularis** Robineau-Desvoidy, 1863: 627 (*Musca*). France, Var. T ♀ DESTROY. Muscidae, *Musca domestica* Linnaeus.
- roralis** Linnaeus, 1758a: 597 (*Musca*). Europe. HT ♀ LSL. Rhinophoridae, *Melanophora roralis* Linnaeus. See Crosskey 1977: 51.
- roralis** Bloch, 1776: 170, pl. 3, fig. 9 (*Musca*). Subsequent Usage of *Musca roralis* Linnaeus. Rhinophoridae, *Melanophora roralis* Linnaeus.
- rosae** De Geer, 1776: 108, pl. 6, fig. 21 (*Musca*). N. n. *Musca pyrastris* Linnaeus. Syrphidae, *Scaeva pyrastris* Linnaeus.
- rosae** Fabricius, 1794: 356 (*Musca*). Germany, Kiel. T A UZMC F. Psilidae, *Chamaepsila hennigi* Thompson & Pont. Preocc. De Geer 1776.
- rosarum** Gmelin, 1790: 2877 (*Musca*). Subsequent Usage of *Syrphus rosarum* Fabricius. Syrphidae, *Platycheirus rosarum* Fabricius.
- rostrata** Fabricius, 1775: 783 (*Musca*). Denmark, Copenhagen. T A UZMC F. Dolichopodidae, *Medetera diadema* Linnaeus.
- rostrata** De Geer, 1776: 130 (*Musca*). Subsequent Usage of *Conops rostrata* Linnaeus. Syrphidae, *Rhingia rostrata* Linnaeus.
- rostrata** Preysler, 1791: 113 (*Musca*). Subsequent Usage of *Musca rostrata* Fabricius. Dolichopodidae, *Medetera diadema* Linnaeus.
- rotundata** Linnaeus, 1758a: 596 (*Musca*). Europe. T A LSL. Tachinidae, *Gynosoma rotundatum* Linnaeus. 1 sp. in LSL (Dear MS).
- rubiginea** Schrank, 1803: 116 (*Musca*). Germany, Bavaria, Ingolstadt. T A Unknown. Syrphidae.
- rubiginosa** Gmelin, 1790: 2878 (*Musca*). Non-European. T A NMI. Syrphidae.
- rubripes** Gmelin, 1790: 2862 (*Musca*). Europe. T A NMI.
- rudis** Fabricius, 1794: 314 (*Musca*). Germany, Schleswig-Holstein, Gromitz. NT ♂ UZMC F. Calliphoridae, *Pollenia rudis* Fabricius. Neotype designated by Rognes 1987b: 498.
- rufa** Scopoli, 1763: 335 (*Musca*). Carniola. T A DESTROY. Psilidae, *Psila fimetaria* Linnaeus.
- rufa** De Geer, 1776: 96, pl. 5, fig. 17 (*Musca*). Sweden. T A NRS. Psilidae? Preocc. Scopoli 1763.
- rufa** de Villers, 1789a: 418 (*Musca*). Subsequent Usage of *Nemotelus rufus* De Geer.
- rufa** Panzer, 1798a: 17 (*Musca*). Austria. T A ZMHU. Sciomyzidae, *Elgiva sollicita* Harris. Preocc. Scopoli 1763.
- ruficapilla** Gmelin, 1790: 2860 (*Musca*). Europe. T A NMI.
- ruficauda** Fabricius, 1794: 353 (*Musca*). France. T A MNHNP. Tephritidae, *Terellia ruficauda* Fabricius.
- ruficaudis** De Geer, 1776: 127 (*Musca*). N. n. *Musca fallax* Linnaeus. Syrphidae, *Blera fallax* Linnaeus.
- ruficeps** Fabricius, 1805: 299 (*Musca*). Southern France. HT ♀ UZMC. Calliphoridae, *Rhyncomya ruficeps* Fabricius. See Townsend 1931c: 372.

- ruficeps* Meigen, 1826: 55 (*Musca*). Germany, Stolberg. T A MNHNP. Calliphoridae, *Lucilia caesar* Linnaeus. Preocc. Fabricius 1805.
- ruficeps* Meigen, 1838: 306 (*Musca*). N. n. *Pollenia violacea* Macquart. Calliphoridae, *Pollenia* sp. Preocc. Fabricius 1805.
- ruficornis* Gmelin, 1790: 2874 (*Musca*). Subsequent Usage of *Syrphus ruficornis* Fabricius. Syrphidae, *Ferdinandea ruficornis* Fabricius.
- ruficornis* Fabricius, 1794: 314 (*Musca*). India Orientali. LT ♀ UZMC. Sarcophagidae, *Parasarcophaga ruficornis* Fabricius. Lectotype designated by Pape 1986: 302.
- ruficornis* Meigen, 1838: 306 (*Musca*). Subsequent Usage of *Pollenia ruficornis* Macquart. Calliphoridae, *Pollenia vespillo* Fabricius.
- ruficornis* Walker, 1858a: 215 (*Musca*). Tasmania. T ♀ BMNH. Calliphoridae, *Onesia pubescens* Macquart. Preocc. Fabricius 1794.
- ruficrus* Ratzeburg, 1844: 174 (*Musca* (*Tachina*)). Germany. T A UNKNOWN. Tachinidae.
- rufifrons* Fabricius, 1781: 449 (*Musca*). Italy. T A UZMC F. Sciomyzidae, *Euthycera fumigata* Scopoli.
- rufifrons* Fabricius, 1805: 295 (*Musca*). Guinea. HT ♂ UZMC. Sarcophagidae, *Craticulina seriata* Speiser. Preocc. Fabricius 1781. See Townsend 1931c: 379; Pape 1986: 302.
- rufifrons* Macquart, 1843: 309 (*Musca*). Java. T ♀ MNHNP. Muscidae, *Musca domestica* Linnaeus. Preocc. Fabricius 1781.
- rufina* Fallén, 1825: 92 (*Musca*). Sweden, Skåne. LT ♂ NRS. Anthomyiidae, *Pegomya rufina* Fallén. Lectotype designated by Michelsen 1983: 114.
- rufipalpis* Meigen, 1838: 307 (*Musca*). Subsequent Usage of *Pollenia rufipalpis* Macquart. Calliphoridae, *Pollenia rudis* Fabricius.
- rufipes* Panzer, 1798c: 23 (*Musca*). Germany, Nuremberg. T A ZMHU. Sciomyzidae, *Sepedon spehegeus* Fabricius.
- rufipes* Fallén, 1825: 85 (*Musca*). Sweden, Skåne. LT ♂ NRS. Anthomyiidae, *Pegomya zonata* Zetterstedt. Preocc. Panzer 1798. Lectotype designated by Michelsen 1983: 114.
- rufipes* Descourtilz, 1826: 157, pl. 1, fig. 2 (*Musca*). France, "les bois de Meudon". T ♂ UNKNOWN. Preocc. Panzer 1798.
- rufipes* Eversmann, 1834: 428 (*Musca*). *Nomen nudum*. USSR, Volga to Urals. T A UNKNOWN. Calliphoridae. Published without diagnosis or indication.
- rufiventris* Scopoli, 1763: 329 (*Musca*). Carniola. T A DESTROY. Muscidae, *Phaonia rufiventris* Scopoli.
- rufiventris* Gmelin, 1790: 2859 (*Musca*). Europe. T A NMI. Preocc. Scopoli 1763.
- rufiventris* Fallén, 1817: 239 (*Musca*). Sweden, Kalmar. T A NRS. Tachinidae, *Mintho rufiventris* Fallén. Preocc. Scopoli 1763. N. Comb.
- rufiventris* Macquart, 1843: 312, pl. 20, fig. 9 (*Musca*). America (=Mauritius). T ♂ MNHNP. Muscidae, *Musca xanthomelaena* Wiedemann. Preocc. Scopoli 1763.
- rufiventris* Macquart, 1846: 328, pl. 17, fig. 8 (*Musca*). Brazil. LT ♂ BMNH. Muscidae, *Musca domestica* Linnaeus. Preocc. Scopoli 1763. Lectotype designated by Pont 1990: 168.
- rufomaculata* De Geer, 1776: 28, pl. 1, fig. 10 (*Musca*). Sweden. T A NRS. Tachinidae, *Eriothrix rufomaculata* De Geer.



- rugosa* Fabricius, 1794: 330 (*Musca*). Germany, Kiel. T A UZMC F. Scenopinidae, *Scenopinus niger* De Geer.
- runicis* Sommerfelt, 1827: 99 (*Musca*). Norway, S. Norrland, Saltdalen. T A UNKNOWN. Anthomyiidae, *Pegomya solennis* Meigen. See Michelsen 1985: 52.
- ruralis* Gravenhorst, 1807: 379 (*Musca*). Unknown, probably Germany. T A Lost. Muscidae.
- ruralis* Fallén, 1817: 237 (*Musca*). Sweden, Skåne. LT ♂ NRS. Sarcophagidae, *Angiometopa falleni* Pape. Preocc. Gravenhorst 1807. Lectotype designated by Pape 1986: 306.
- rustica* Fabricius, 1775: 777 (*Musca*). Denmark, Copenhagen. T A UZMC F. Tachinidae, *Dexia rustica* Fabricius.
- rustica* Schrank, 1803: 120 (*Musca*). Germany, Pottmes. T A Unknown. Tachinidae? Preocc. Fabricius 1775.
- rustica* Fallén, 1825: 79 (*Musca*, as *angelicae* var.  $\beta$ ). Sweden. LT ♂ NRS. Muscidae, *Mydaea urbana* Meigen. Preocc. Fabricius 1775. Lectotype designated by Pont 1984: 292.
- rustica* Robineau-Desvoidy, 1863: 622 (*Musca*). France, Paris. T A DESTROY. Muscidae, *Musca autumnalis* De Geer. Preocc. Fabricius 1775.
- rutilans* Fabricius, 1781: 436 (*Musca*). West Indies. T A UZMC F. Tachinidae, *Billaea rutilans* Fabricius. Types not found by Townsend 1931a: 102.
- rutilus* Harris, 1780: 86, pl. 25, fig. 20 (*Musca*). England. T A Unknown. Tachinidae, *Mintho praeceps* Scopoli.
- rutilo Harris, 1780: 80, pl. 24, fig. 21 (*Musca*). England. T A Unknown. Syrphidae, *Ferdinandea cuprea* Scopoli. Name improperly formed (verb).
- sabaeus Gmelin, 1790: 2832 (*Musca*). Subsequent Usage of *Bibio sabaeus* Fabricius. Bombyliidae, *Lomatia sabaeus* Fabricius.
- sacalis Bjerkander, 1783: 102 (*Musca*). Sweden. T A UNKNOWN.
- sacra Fabricius, 1805: 291 (*Musca*). [South Africa, Cape of Good Hope] Error for New Zealand. HT ♀ UZMC. Calliphoridae, *Calliphora quadrimaculata* Swederus. See Townsend 1931c: 375; Dear 1985a: 23.
- saltatrix Linnaeus, 1761: 555 (*Musca*). Sweden. T A LSL. Chloropidae, *Meromyza saltatrix* Linnaeus. 1 sp. in LSL (Dear MS).
- saltatrix Geoffroy, 1785: 480 (*Musca*). France, Paris. T A Author. Chloropidae, *Chlorops pumilionis* Bjerkander. Preocc. Linnaeus 1758. N. Syn.
- saltitans Scopoli, 1763: 350 (*Musca*). Carniola. T A DESTROY. Scenopinidae, *Scenopinus fenestralis* Linnaeus.
- saltuum Linnaeus, 1758a: 599 (*Musca*). Europe. T A LSL. Pallopteridae, *Palloptera saltuum* Linnaeus. 1 sp. in LSL (Dear MS).
- salviae Gmelin, 1790: 2877 (*Musca*). Subsequent Usage of *Syrphus salviae* Fabricius. Syrphidae, *Asarkina salviae* Fabricius.
- sanctae-helenaee Macquart, 1848: 218, pl. 6, fig. 14 (*Musca*). Saint Helena. LT ♂ IRSNB. Muscidae, *Musca domestica* Linnaeus. Lectotype designated by Pont 1977a: 127.
- sandaracha Harris, 1780: 119, pl. 35, fig. 30 (*Musca*). England. T A Unknown. Heleomyzidae.
- sanio Harris, 1780: index (*Musca*). Inscop. *sannio* Harris. Dolichopodidae. Name improperly formed (verb). Name status by present revision.
- saniosa Westring, 1814: 56, pl. 4b (*Musca*). Sweden. T A NRS. Sphaeroceridae.

- sannio Harris, 1780: 158, pl. 47, fig. 5 (*Musca*). England. T A Unknown. Dolichopodidae. Name improperly formed (verb).
- santoshi Joseph & Parui, 1972: 180 (*Musca*). India, NEFA, Kambang. HT ♂ ZSL. Muscidae, *Musca santoshi* Joseph & Parui.
- sarcophagoides Walker, 1861b: 244 (*Musca*). New Guinea, Dorey. T ♂ BMNH. Calliphoridae, *Polleniopsis sarcophagoides* Walker.
- sarsina Walker, 1849: 882 (*Musca*). South Africa. T ♀ BMNH. Muscidae, *Neomyia peronii* Robineau-Desvoidy.
- satyrus Gmelin, 1790: 2831 (*Musca*). Subsequent Usage of *Bibio satyrus* Fabricius. Bombyliidae, *Ligyra satyrus* Fabricius.
- scabiosae Fabricius, 1794: 361 (*Musca*). France. T A MNHNP. Tephritidae.
- scalaris Fabricius, 1794: 332 (*Musca*). Denmark, Copenhagen. LT ♂ UZMC. Fanniidae, *Fannia scalaris* Fabricius. Lectotype designated by Michelsen 1979a: 188.
- scapularis Rondani, 1875: 428 (*Musca*). Borneo, Sarawak. T ♂ MCSNG. Muscidae, *Musca conducens* Walker.
- scatophaga Malloch, 1925: 373 (*Musca*). South Africa, Cape Province, Prospect. HT ♂ BMNH. Muscidae, *Musca aethiops* Stein. See Pont 1990: 169.
- scitule Harris, 1780: 111, pl. 33, fig. 55 (*Musca*). England. T A Unknown. Syrphidae, *Episyrphus cannabina* Scopoli. Name improperly formed (adverb).
- scitulus Harris, 1780: 105, pl. 32, fig. 33 (*Musca*). England. T A Unknown. Syrphidae, *Episyrphus cannabina* Scopoli.
- scitus Harris, 1780: 107, pl. 32, fig. 41 (*Musca*). England. T A Unknown. Syrphidae, *Tropidia scita* Harris.
- scolopacea Linnaeus, 1758a: 590 (*Musca*). Europe. T A LSL. Rhagionidae, *Rhagio scolopaceus* Linnaeus. 3 sp. in LSL (Dear MS).
- scolopacina de Villers, 1789a: 429 (*Musca*). France, Bressia [= Bresse]. T A Author.
- scripta Linnaeus, 1758a: 594 (*Musca*). Sweden. LT ♂ LSL. Syrphidae, *Sphaerophoria scripta* Linnaeus. Lectotype designated by Vockeroth 1971: 1634.
- scutata Rossi, 1790: 314 (*Musca*). Italy, Tuscany, Firenze & Pisa. T A ZMHU. Chloropidae, *Capnoptera scutata* Rossi.
- scutellaris Fabricius, 1805: 293 (*Musca*). South America. LT ♂ UZMC. Muscidae, *Scutellomusca scutellaris* Fabricius. Lectotype designated by Michelsen 1979a: 188 (HT designation Townsend 1931a: 68).
- scutellaris Fallén, 1825: 90 (*Musca*). Sweden, Skåne, Äsperöd. LT ♂ NRS. Muscidae, *Phaonia rufiventris* Scopoli. Preocc. Fabricius 1805. Lectotype designated by Pont 1984: 293.
- scutellata Meigen, 1838: 304 (*Musca*). Subsequent Usage of *Calliphora scutellata* Macquart. Calliphoridae, *Calliphora vicina* Robineau-Desvoidy.
- scybalaria Linnaeus, 1758a: 599 (*Musca*). Europe. T A LSL. Scathophagidae, *Scathophaga scybalaria* Linnaeus. 4 sp. in LSL (Dear MS).
- secalis Bjerkander, 1777: 30 (*Musca*). Sweden. T A UNKNOWN.
- seelandica Gmelin, 1790: 2870 (*Musca*). N. n. *Syrphus trilineatus* Fabricius. Syrphidae, *Helophilus seelandicus* Gmelin.
- segetum Turton, 1801: 641 (*Musca*). Subsequent Usage of *Syrphus segetum* Fabricius. Syrphidae, *Merodon segetum* Fabricius.
- segmentaria Panzer, 1804: 140 (*Musca*). Germany, Regensburg. T A Unknown.

- segmentaria* Fabricius, 1805: 292 (*Musca*). South America. HT ♀ UZMC. Calliphoridae, *Hemilucilia nubipennis* Rondani. Preocc. Panzer 1804. See Townsend 1931a: 71; Dear 1985b: 127. **N. Syn.**
- segnis* Linnaeus, 1758a: 595 (*Musca*). Sweden. LT ♂ LSL. Syrphidae, *Xylota segnis* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 160.
- selecta* Walker, 1859b: 135 (*Musca*). Sulawesi, Makasar. T ♀ BMNH. Calliphoridae, *Isomyia selecta* Walker. **N. Comb.**
- sellata* Fuesslin, 1775: 54 (*Musca*). Switzerland, Zürich & Bundten; Germany, Regensburg. ST A UNKNOWN. Stratiomyidae, *Clitellaria ephippium* Fabricius. **N. Syn.**
- semiargentata* Donovan, 1795: 92, pl. 142, fig. 3 (*Musca*). England, Epping Forest. T A UNKNOWN. Dolichopodidae, *Argyra leucocephala* Meigen.
- semiargentea* Turton, 1801: 606 (*Musca*). Emend. *semiargentata* Donovan. Dolichopodidae, *Argyra leucocephala* Meigen.
- semiatra* Wiedemann, 1830: 421 (*Musca*). Brazil. T A UZMC. Cuterebridae, *Pseudogametes semiatra* Wiedemann. HT designation for male in NMW by Townsend 1931a: 80.
- semicaerulea* Stephens, 1829a: 60 (*Musca*). *Nomen nudum*. England. T A BMNH. Calliphoridae.
- semiflava* Panzer, 1798b: 9 (*Musca*). Austria. T ♀ ZMHU.
- semiluctifera* de Villers, 1789a: 463, pl. 9, fig. 23 (*Musca*). Southern France. T A Author. Syrphidae, *Milesia semiluctifera* de Villers.
- seminationis* Fabricius, 1775: 786 (*Musca*). Germany, Leipzig. T A UZMC F. Platystomatidae, *Platystoma seminationis* Fabricius.
- semirufa* Turton, 1801: 648 (*Musca*). Subsequent Usage of *Syrphus semirufus* Fabricius. Syrphidae, *Blera fallax* Linnaeus.
- semulater* Harris, 1780: 112, pl. 33, fig. 58 (*Musca*). England. T A Unknown. Syrphidae, *Xylota* sp.
- semulator* Harris, 1780: index (*Musca*). Incomp. *semulater* Harris. Syrphidae, *Xylota* sp. Name revised by Goffe 1946: 84.
- senegalensis* Macquart, 1843: 308 (*Musca*). Senegal. T ♂ MNHNP. Muscidae, *Musca domestica* Linnaeus.
- senilis* Fabricius, 1794: 331 (*Musca*). Germany. T A UZMC F. Scenopinidae, *Scenopinus fenestralis* Linnaeus.
- senilis* Eversmann, 1834: 428 (*Musca*). *Nomen nudum*. USSR, Volga to Urals. Muscidae. Published without diagnosis or indication.
- seniorwhitei* Patton, 1922b: 73 (*Musca*). India, Krishna River & Kollar Lake. ST A BMNH. Muscidae, *Musca seniorwhitei* Patton. See Pont 1990: 169.
- sensifera* Walker, 1861a: 314 (*Musca*). Mexico. T ♂ BMNH. Tachinidae, *Billaeaensifera* Walker.
- seplasia* Walker, 1849: 891 (*Musca*). Unknown. T ♂ BMNH. Muscidae, *Eudasyphora cyanicolor* Zetterstedt.
- sepulchralis* Linnaeus, 1758a: 596 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Eristalinus sepulchralis* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 160.
- sepulchralis* Meigen, 1826: 71 (*Musca*). Germany. ST A MNHNP. Calliphoridae, *Onesia floralis* Robineau-Desvoidy. Preocc. Linnaeus 1758.
- serena* Fallén, 1825: 76 (*Musca*). Sweden, Skåne. LT ♂ NRS. Fanniidae, *Fannia serena* Fallén. Lectotype designated by Pont 1984: 293.

- serena* Meigen, 1826: 59 (*Musca*). Germany, probably Stolberg. LT ♀ MNHNP. Muscidae, *Pyrellia rapax* Harris. Preocc. Fallén 1825. Lectotype designated by Pont 1986b: 243.
- serenissima* Walker, 1853b: 340 (*Musca*). East Indies. T ♀ BMNH. Calliphoridae, *Lucilia cuprina* Wiedemann.
- sericata* Meigen, 1826: 53 (*Musca*). Austria. T ♀ NMW. Calliphoridae, *Lucilia sericata* Meigen. Type lost (Rognes 1991a: 180).
- sericea* Geoffroy, 1785: 489 (*Musca*). France, Paris. T A Author.
- sericea* Donovan, 1808: 26, pl. 445, fig. 2 (*Musca*). England, Kent, Faversham. T A UNKNOWN. Tachinidae. Preocc. Geoffroy 1785.
- serpo* Harris, 1780: 144, pl. 42, fig. 54 (*Musca*). England. Sarcophagidae, *Sarcophaga* sp. Name improperly formed (verb).
- serrata* Linnaeus, 1758a: 597 (*Musca*). Europe. T A LSL. Heleomyzidae, *Heleomyza serrata* Linnaeus. 1 sp. in LSL (Dear MS).
- serratula* Manuel, 1811: 35 (*Musca*). Emend. *serratulae* Linnaeus. Tephritidae, *Terellia serratulae* Linnaeus.
- serratulae* Linnaeus, 1758a: 600 (*Musca*). Europe. T A LSL. Tephritidae, *Terellia serratulae* Linnaeus. See White 1987: 104.
- serva* Walker, 1853b: 349 (*Musca*). United States. T ♂ BMNH. Calliphoridae, *Opsodexia serva* Walker. N. Comb.
- setaria* Rossi, 1788: 130 (*Musca*). [Italy, Pisa]. T A UNKNOWN.
- seticornis* Gmelin, 1790: 2861 (*Musca*). Europe. T A NMI.
- setigera* Awati, 1916b: 138 (*Musca*). India. ST ♀ CRIK. Muscidae, *Musca xanthomelaena* Wiedemann.
- setosa* Gmelin, 1790: 2859 (*Musca*). Europe. T A NMI.
- setosa* Panzer, 1804: 72 (*Musca*). Germany, Regensburg. T A Unknown. Preocc. Gmelin 1790.
- setosa* Presl, 1822: 205 (*Musca*). Ligurian Prussian Amber. T A Unknown. Preocc. Gmelin 1790.
- setulosa* Zielke, 1970: 504 (*Musca*). *Nomen nudum*. Uganda, Kichwamba, Ankole. ST ♀ USNM. Muscidae, *Musca setulosa* Zielke. Published after 1930 without a description.
- setulosa* Zielke, 1971a: 104 (*Musca*). Uganda, 15mi S. Kichwamba, Kalinzu forest, Ankole Distr. HT ♀ USNM. Muscidae, *Musca setulosa* Zielke.
- sexdentata* Gmelin, 1790: 2836 (*Musca*). Subsequent Usage of *Stratiomys sexdentata* Fabricius. Stratiomyidae, *Beris chalybata* Forster.
- sexmaculata* Preyßler, 1791: 88, pl. 3, fig. 10 (*Musca*). Czechoslovakia, Prague, Botanical Garden. T ♀ DESTROY. Muscidae, *Helina sexmaculata* Preyßler. See Rozkosny, Chvála & Pont 1982: 352.
- sexpunctata* Fabricius, 1805: 300 (*Musca*). Denmark. HT ♂ UZMC. Sarcophagidae, *Pierretia sexpunctata* Fabricius. See Pape 1986: 303.
- shanghaiensis* Ōuchi, 1938a: 5 (*Musca*). China, Shanghai & Tienmushan. ST ♀ SIE. Muscidae, *Musca formosana* Malloch.
- sigmoidea* Geoffroy, 1785: 471 (*Musca*). France, Paris. T A Author. Acalyptrate.
- signata* Preyßler, 1791: 95, pl. 3, fig. 12 (*Musca*). Czechoslovakia, Prague, Botanical Garden. T ♀ DESTROY. Muscidae, *Helina celsa* Harris. See Rozkosny, Chvála & Pont 1982: 352.



- silentis** Harris, 1776: 59, pl. 15, fig. 14 (*Musca*). England. T ♂ Unknown. Syrphidae, *Sericomyia silentis* Harris.
- silvarum** Meigen, 1826: 53 (*Musca*). Austria. T ♀ NMW. Calliphoridae, *Lucilia silvarum* Meigen. Preocc. Linnaeus 1758 (*sylvarum*). Type lost (Rognes 1991a: 183).
- silvestris** Fallén, 1824: 70 (*Musca*). Sweden, Västergötland. LT ♀ NRS. Anthomyiidae, *Alliopsis silvestris* Fallén. Lectotype designated by Michelsen 1983: 115.
- similis** Forster, 1770: 15 (*Musca*). *Nomen nudum*. England. Stratiomyidae, *Beris similis* Forster. Published without diagnosis or indication.
- similis** Forster, 1771: 97 (*Musca*). England. T A LSL. Stratiomyidae, *Beris similis* Forster.
- simulator** Harris, 1780: 123, pl. 36, fig. 49 (*Musca*). England. T A Unknown. Acalyptrate.
- simulator** Harris, 1780: index (*Musca*). Incosp. *semulater* Harris. Syrphidae, *Xylota* sp. Name revised by Goffe 1946: 85.
- simulator** Harris, 1780: 152, pl. 45, fig. 77 (*Musca*). England. T A Unknown. Coelopidae.
- simulator** Harris, 1780: index (*Musca*). Incosp. *simulater* Harris. Acalyptrate. Name status by present revision.
- sinensis** Gmelin, 1790: 2872 (*Musca*). N. n. *Syrphus zonatus* Fabricius. Syrphidae, *Phytomia zonata* Fabricius.
- syngenesiae** Manuel, 1811: 37 (*Musca*). Emend. *syngenesiae* Fabricius. Platystomatidae, *Rivellia syngenesiae* Fabricius.
- singularius** Harris, 1776: 45, pl. 11, fig. 2 (*Musca*). England. T A Unknown. Stratiomyidae, *Stratiomys singularior* Harris.
- sinuata** Donovan, 1805: 88, pl. 41 (*Musca*). Australia. T A Author. Tachinidae, *Microtropesa sinuata* Donovan. See Townsend 1932: 40 (HT F in BMNH!), Crosskey 1973b: 135.
- sinuata** Wiedemann, 1830: 384 (*Musca*). Subsequent Usage of *Musca sinuata* Donovan. Tachinidae, *Microtropesa sinuata* Donovan.
- smaragdina** Geoffroy, 1785: 492 (*Musca*). France, Paris. T A Author.
- socia** Fallén, 1825: 82 (*Musca*). Sweden, Skåne. LT ♀ NRS. Anthomyiidae, *Emmesomyia socia* Fallén. Lectotype designated by Michelsen 1983: 115.
- socio** Harris, 1780: 147, pl. 43, fig. 69 (*Musca*). England. T A Unknown. Fanniidae, *Fannia canicularis* Linnaeus. Name improperly formed (verb).
- solaia** Walker, 1849: 887 (*Musca*). Australia. T ♀ BMNH. Calliphoridae, *Hemipyrellia ligurriens* Wiedemann.
- solicitus** Harris, 1780: 116, pl. 34, fig. 18 (*Musca*). England. T A Unknown. Sciomyzidae, *Elgiva sollicita* Harris.
- solivagus** Harris, 1780: 85, pl. 25, fig. 15 (*Musca*). England. T A Unknown. Tachinidae, *Thelaira solivaga* Harris.
- solor** Harris, 1780: 146, pl. 43, fig. 65 (*Musca*). England. T A Unknown. Anthomyiidae. Name improperly formed (verb).
- solstitialis** Linnaeus, 1758a: 601 (*Musca*). Europe. T A LSL. Tephritidae, *Urophora solstitialis* Linnaeus. See White 1987: 105.
- solstitialis**, Sulzer, 1776: 216 (*Musca*). Switzerland. T A UNKNOWN. Preocc. Linnaeus 1758. *Subsequent usage*

- somalorum** Bezzi, 1892: 190 (*Musca*, as *corvina* var.). Somalia, Obbia, Uebi. T ♀ MCSNM. Muscidae, *Musca somalorum* Bezzi.
- sonchi** Linnaeus, 1767: 998 (*Musca*). Europe. T A LSL. Tephritidae, *Ensina sonchi* Linnaeus. See White 1987: 105.
- sorbens** Wiedemann, 1830: 418 (*Musca*). Sierra Leone. HT ♀ NMW. Muscidae, *Musca sorbens* Wiedemann. See Pont 1973: 289.
- sordida** Gmelin, 1790: 2861 (*Musca*). Europe. T A NML.
- sordida** Zetterstedt, 1837: 42 (*Musca*). *Nomen nudum*. [Sweden, Lycksele]. T ♀ ZIL. Calliphoridae, *Protocalliphora rognesi* Thompson & Pont.
- sordida** Zetterstedt, 1838: 657 (*Musca*). Sweden, Lycksele. LT ♀ ZIL. Calliphoridae, *Protocalliphora rognesi* Thompson & Pont. Preocc. Gmelin 1790. Lectotype designated by Sabrosky 1956: 179. N. Syn.
- sordidissima** Walker, 1864: 216 (*Musca*). Mysol. HT ♂ BMNH. Muscidae, *Musca domestica* Linnaeus. See Pont 1990: 169.
- soror** Robineau-Desvoidy, 1830: 399 (*Musca*). India, Coromandel. T ♀ DESTROY. Muscidae, *Musca domestica* Linnaeus.
- spangleri** Zielke, 1970: 504 (*Musca*). *Nomen nudum*. Uganda, Kichwamba, Ankole. HT ♂ USNM. Muscidae, *Musca spangleri* Zielke. Published after 1930 without a description.
- spangleri** Zielke, 1971a: 103, fig. 1 (*Musca*). Uganda, Kichwamba, Ankole Distr. HT ♂ USNM. Muscidae, *Musca spangleri* Zielke.
- spatula** Scopoli, 1763: 341 (*Musca*). Idrija. T A DESTROY. Stratiomyidae, *Stratiomys chanaeleon* Linnaeus.
- spectanda** Wiedemann, 1830: 419 (*Musca*). Sierra Leone. HT ♂ NMW. Muscidae, *Musca sorbens* Wiedemann. See Pont 1973: 290.
- speculifera** de Villers, 1789a: 464, pl. 9, fig. 25 (*Musca*). Europe. T A Author. Syrphidae, *Chrysogaster* sp.
- speculifera** Bezzi, 1911: 96 (*Musca*). Tunisia, Djerba Is. HT ♀ MCSNM. Muscidae, *Musca albina* Wiedemann. Preocc. de Villers 1789.
- sperata** Walker, 1859b: 136 (*Musca*). Sulawesi, Makassar. T ♂ BMNH. Muscidae, *Neomyia sperata* Walker.
- sphegea** Gmelin, 1790: 2873 (*Musca*). Subsequent Usage of *Syrphus sphegeus* Fabricius. Sciomyzidae, *Sepedon sphegeus* Fabricius.
- sphinx** Gmelin, 1790: 2832 (*Musca*). Subsequent Usage of *Biblio sphinx* Fabricius. Bombyliidae, *Ligyra sphinx* Fabricius.
- spilogaster** Wiedemann, 1824: 50 (*Musca*). South Africa, Cape of Good Hope. T ♂ UZMC. Sarcophagidae, *Poecilometopa spilogaster* Wiedemann.
- spinifera** Geoffroy, 1785: 494 (*Musca*). France, Paris. T A Author.
- spinipes** Scopoli, 1763: 342 (*Musca*). Carniola. T A DESTROY. Sciomyzidae, *Sepedon spinipes* Scopoli.
- spinipes** Fallén, 1823: 61 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Hydrotaea diabolus* Harris. Preocc. Scopoli 1763. Lectotype designated by Pont 1984: 293.
- spinohumera** Awati, 1916b: 138 (*Musca*). India. ST ♀ CRİK. Muscidae, *Musca lusoria* Wiedemann.
- spinosa** Awati, 1916b: 138 (*Musca*). India. ST ♀ CRİK. Muscidae, *Musca pattoni* Austen.
- spitzbergensis** Walker, 1849: 893 (*Musca*). Subsequent Usage of *Calliphora spitzbergensis* Robineau-Desvoidy. Calliphoridae, *Calliphora vicina* Robineau-Desvoidy.

- splendens* Gmelin, 1790: 2833 (*Musca*). Subsequent Usage of *Stratiomys splendens* Fabricius. Stratiomyidae, *Pycnomalla splendens* Fabricius.
- splendens** Pont, 1980: 727 (*Musca*). N. n. *Musca splendida* Paterson. Muscidae, *Musca splendens* Pont.
- splendida** Donovan, 1805: 88, pl. 41 (*Musca*). Australia, New South Wales. NT ♂ BMNH. Tachinidae, *Rutilia splendida* Donovan. Crosskey 1973a: 123.
- splendida* Meigen, 1826: 56 (*Musca*). Germany, Stolberg. LT ♂ MNHNP. Calliphoridae, *Lucilia caesar* Linnaeus. Preocc. Donovan 1805. Lectotype designated by Rognes 1991a: 164.
- splendida* Paterson, 1957: 111, fig. 5 (*Musca*). South Africa, Cape, Knysna. HT ♂ SAIMR. Muscidae, *Musca splendens* Pont. Preocc. Donovan 1805.
- spoliata* Scopoli, 1763: 350 (*Musca*). Carniola. T A DESTROY. Scenopinidae, *Scenopinus fenestralis* Linnaeus.
- spondylii* Schrank, 1837: 18 (*Musca*). Austria? T A Unknown. Sepsidae, *Saltella sphondylii* Schrank. N. Syn.
- squalida** Gmelin, 1790: 2861 (*Musca*). Europe. T A NMI.
- squamata* Müller, 1764: 85 (*Musca*). Denmark, Sjaelland, Frederiksdal. T A Author. Dolichopodidae, *Dolichopus ungulata* Linnaeus. N. Syn.
- squamata* Malloch, 1934: 10 (*Viviparomusca*). Sulawesi, Menado. HT ♀ IRSNB. Muscidae, *Musca mallochi* Thompson & Pont. Preocc. Müller 1764.
- squamifera* Müller, 1776: 176 (*Musca*). N. n. *Musca squamata* Müller. Dolichopodidae, *Dolichopus ungulatus* Linnaeus.
- stabulans** Fallén, 1817: 252 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Muscina stabulans* Fallén. Lectotype designated by Pont 1984: 293.
- stellata** Fuesslin, 1775: 56 (*Musca*). Switzerland, Zürich. T A Unknown. Tephritidae, *Trupanea stellata* Fuesslin.
- stellata* Geoffroy, 1785: 470 (*Musca*). France, Paris. T A Author. Preocc. Fuesslin 1775.
- stellata* Roemer, 1789: 84 (*Musca*). Switzerland. T A Unknown. Tephritidae, *Trupanea stellata* Fuesslin. Preocc. Fuesslin 1775.
- stercoraria** Linnaeus, 1758a: 599 (*Musca*). Europe. T A LSL. Scathophagidae, *Scathophaga stercoraria* Linnaeus. 2 sp. in LSL (Dear MS).
- stictica** Gmelin, 1790: 2863 (*Musca*). N. n. *Musca punctata* Schrank. Tephritidae, *Orellia stictica* Gmelin. N. Comb.
- stigma** Fabricius, 1798: 563 (*Musca*). West Indies. T A UZMC. Otitidae, *Notoگرامma stigma* Fabricius.
- stigma* Panzer, 1798c: 21 (*Musca*). Austria. T A ZMHU. Sepsidae, *Sepsis punctum* Fabricius.
- stimulans* Robineau-Desvoidy, 1830: 393 (*Byomya*). France, Saint-Sauveur. T A DESTROY. Muscidae, *Musca tempestiva* Fallén.
- stimulans* Macquart, 1835: 268 (*Musca*). Subsequent Usage of *Byomyia stimulans* Robineau-Desvoidy. Muscidae, *Musca tempestiva* Fallén.
- stipata** Walker, 1853b: 348 (*Musca*). Guyana, Demerara. T ♀ BMNH. Muscidae, *Graphomya stipata* Walker.
- stomoxidea* Robineau-Desvoidy, 1830: 396 (*Musca*). Brazil. T ♀ DESTROY. Muscidae, *Musca domestica* Linnaeus.
- striata** Gmelin, 1790: 2865 (*Musca*). N. n. *Tipula lineata* Fabricius. Keroplatidae, *Cerotelion striatus* Gmelin. N. Status

- striata* Fabricius, 1794: 315 (*Musca*). Denmark, Copenhagen. LT ♀ UZMC. Sarcophagidae, *Ravinia permix* Harris. Preocc. Gmelin 1790. Lectotype designated by Pape 1986: 303 (also Townsend 1931c: 377).
- striata* Townsend, 1931c: 378 (*Musca*). Subsequent Usage of *Musca striata* of Enderlein, not Fabricius. Sarcophagidae, *Thyrsoconema incisilobata* Pandellé. Renamed as *Thyrsoconema transitia* based on HT M in ZMHU.
- striatacta* Awati, 1916b: 138 (*Musca*). India. HT A CRIK. Muscidae, *Musca striatacta* Awati.
- strigata* Gmelin, 1790: 2834 (*Musca*). Subsequent Usage of *Stratiomys strigata* Fabricius. Stratiomyidae, *Stratiomys longicornis* Scopoli.
- strigosa* Gmelin, 1790: 2843 (*Musca*). Europe. T A NMI.
- strigosa* Fabricius, 1794: 322 (*Musca*). Germany, Kiel. HT A UZMC F. Anthomyiidae, *Hylemya vagans* Panzer. Preocc. Gmelin 1790. See Michelsen 1979a: 189.
- strigula* Fabricius, 1794: 334 (*Musca*). France. T A MNHNP. Chloropidae, *Chlorops strigula* Fabricius.
- striolata* Fallén, 1824: 71 (*Musca*). Sweden, Skåne. LT ♂ NRS. Anthomyiidae, *Botanophila striolata* Fallén. Lectotype designated by Michelsen 1983: 118.
- structus* Harris, 1780: 147, pl. 43, fig. 68 (*Musca*). England. T A Unknown. Anthomyiidae.
- strumosa* Scopoli, 1763: 343 (*Musca*). Carniola. T A DESTROY. Micropezidae, *Micropeza corrigiolata* Linnaeus.
- stuan Manuel, 1811: 35 (*Musca*). Missp. *aestuans* Linnaeus.
- stuckenbergi* Zielke, 1971c: 100 (*Musca*). South Africa, Natal, Pietermaritzburg. HT ♀ NMP. Muscidae, *Musca sorbens* Wiedemann.
- stygia* Fabricius, 1781: 438 (*Musca*). (Newfoundland) Error for New Zealand. HT ♀ BMNH B. Calliphoridae, *Calliphora stygia* Fabricius. See Osten Sacken 1882: 20; Townsend 1931c: 374; Dear 1985a:24.
- stylata* Fabricius, 1775: 785 (*Musca*). England. T A UZMC F. Tephritidae, *Urophora stylata* Fabricius.
- subcoleoprata Gmelin, 1790: 2869 (*Musca*). Subsequent Usage of *Conops subcoleoprata* Linnaeus. Tachinidae, *Allophora subcoleoprata* Linnaeus.
- subcutanea Linnaeus, 1764a: 297 (*Musca*). *Nomen nudum*. [France]. Tephritidae. Published in non-binominal work.
- subcutanea Linnaeus, 1764a: 300 (*Musca*). *Nomen nudum*. [France]. Tephritidae, *Ensina sonchi* Linnaeus. Published in non-binominal work.
- subcutanea Linnaeus, 1764a: 287 (*Musca*). *Nomen nudum*. [France]. Tephritidae. Published in non-binominal work.
- subcutanea Bjerckander, 1793: 57 (*Musca*). Sweden. T A UNKNOWN.
- subcutanea Turton, 1801: 623 (*Musca*). N. n. *Musca heraclii* Linnaeus. Tephritidae, *Euleia heraclii* Linnaeus. Preocc. Bjerckander 1793.
- sublatus Harris, 1780: 125, pl. 36, fig. 56 (*Musca*). England. T ♂ Unknown. Muscidae, *Phaonia* sp.
- subpuncta Fallén, 1825: 80 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Helina quadrum* Fabricius. Lectotype designated by Pont 1984: 294.
- subsultans Linnaeus, 1767: 993 (*Musca*). Sweden. T A LSL. Phoridae, *Borophaga subsultans* Linnaeus. See Disney 1982: 115.
- subtomentosa Gmelin, 1790: 2843 (*Musca*). Europe. T A NMI. Syrphidae, *Sericoomyia silentis* Harris.



- subulata** Gmelin, 1790: 2860 (*Musca*). Europe. T A NMI.
- subvariegata** Jördens, 1801: 301 (*Musca*). *Nomen nudum*. Name published in synonymy of *Musca carnaria* and attributed to "Scopoli Ent. carn. 869" [= *variegata*].
- subventus** Harris, 1780: 145, pl. 43, fig. 60 (*Musca*). England. T ♂ Unknown. Muscidae, *Phaonia subventa* Harris.
- succincta** Gmelin, 1790: 2866 (*Musca*). N. n. *Rhagio cinctus* Fabricius. Anisopodiidae, *Sylvicola cinctus* Fabricius.
- suecica** de Villers, 1789a: 510 (*Musca*). Sweden, Ostrogothia. T A Unknown.
- suffusa** Walker, 1853b: 336 (*Musca*). Brazil. T A DESTROY. Calliphoridae.
- sugillatrix** Robineau-Desvoidy, 1830: 392 (*Plaxemya*). France, Saint-Sauveur. T ♂ DESTROY. Muscidae, *Musca osiris* Wiedemann.
- suilla** Fabricius, 1794: 343 (*Musca*). Germany. T A UZMC F. Scathophagidae, *Scathophaga suilla* Fabricius.
- surinamensis** De Geer, 1776: 145, pl. 29, fig. 1 (*Musca*). Surinam. T A NRS. Syrphidae, *Palpada vinetorum* Fabricius. See Thompson 1973: 354.
- sylvanus** Gmelin, 1790: 2832 (*Musca*). Subsequent Usage of *Bibio sylvana* Fabricius. Bombyliidae, *Comptosia sylvana* Fabricius.
- sylvarum** Linnaeus, 1758a: 592 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Xylota sylvarum* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 160.
- syngenesiae** Fabricius, 1781: 454 (*Musca*). Germany. T A UZMCF. Platystomatidae, *Rivellia syngenesiae* Fabricius.
- syrphus** Meuschen, 1787: 212 (*Musca*). Unknown. T A Auction.
- tabaniformis** Fabricius, 1805: 302 (*Musca*). Mogador [=Morocco, Essaouira]. HT ♀ UZMC. Sarcophagidae, *Craticulina tabaniformis* Fabricius. See Townsend 1931c: 379; Page 1986: 303.
- tachinoides** Fallén, 1817: 244 (*Musca*). Sweden, Östergötland & Vestergötland. ST A NRS. Tachinidae, *Stomina tachinoides* Fallén. See Townsend 1932: 43 (invalid HT designation).
- taeniata** Panzer, 1798c: 18 (*Musca*). Germany, Nuremberg. T ♂ ZMHU. Tachinidae, *Phasia crassipennis* Fabricius.
- taenionota** Wiedemann, 1819a: 22 (*Musca*). Java. T ♀ UZMC. Sarcophagidae.
- tahitiensis** Lichtenstein, 1796: 215 (*Musca*). Tahiti. T A Auction. Muscidae.
- taitensis** Macquart, 1843: 310, pl. 20, fig. 8 (*Musca*). Tahiti. T ♂ MNHNP. Muscidae, *Musca domestica* Linnaeus.
- taniaria** Wiedemann, 1830: 406 (*Musca*). Incosp. *ianiaria* Wiedemann. Calliphoridae, *Cochliomyia macellaria* Fabricius. Name revised by Wiedemann 1830: 683. See Dear 1985b: 141.
- tarda** Linnaeus, 1761: 441 (*Musca*). Sweden. T A LSL. Scenopinidae, *Scenopinus fenestralis* Linnaeus. 4 sp. in LSL (Dear MS).
- tardigradus** Harris, 1776: 46, pl. 11, fig. 6 (*Musca*). England. T A Unknown. Stratiomyidae, *Oxycera rara* Scopoli.
- tarditas** Harris, 1780: 106, pl. 32, fig. 40 (*Musca*). England. T A Unknown. Syrphidae, *Cheilosia* sp.
- tartidus** Harris, 1780: index (*Musca*). Incosp. *tarditas* Harris. Syrphidae, *Cheilosia* sp. Name revised by Goffe 1946: 85.
- tau** Schrank, 1781: 458 (*Musca*). Austria, Linz. T A Unknown. Muscidae, *Musca autumnalis* De Geer.

- tegularia* Wiedemann, 1830: 655 (*Musca*). Egypt. T A SMF. Calliphoridae, *Lucilia sericata* Meigen.
- temperata* Walker, 1853b: 340 (*Musca*). East Indies. T ♀ BMNH. Calliphoridae, *Lucilia cuprina* Wiedemann.
- tempestatum** Bezzi, 1908c: 101 (*Biomyia*). Ethiopia (Eritrea), Asmara. ST ♂ ♀ MCSNM. Muscidae, *Musca tempestatum* Bezzi. STs also in BMNH (Pont 1990: 169) & USNM (*teste* Pont).
- tempestiva** Fallén, 1817: 254 (*Musca*). Sweden, Skåne, near Kivik. LT ♂ NRS. Muscidae, *Musca tempestiva* Fallén. Lectotype designated by Pont 1984: 294.
- temula** Scopoli, 1763: 330 (*Musca*). Carniola. T A DESTROY. Tachinidae, *Zoophomyia temula* Scopoli.
- tenax** Linnaeus, 1758a: 591 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Eristalis tenax* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 160.
- tenebricus* Harris, 1776: 45, pl. 11, fig. 3 (*Musca*). England. T A Unknown. Stratiomyidae, *Stratiomys longicornis* Scopoli.
- tener** Harris, 1780: 116, pl. 34, fig. 19 (*Musca*). England. T A Unknown. Sciomyzidae.
- tentaculata** De Geer, 1776: 86 (*Musca*). Sweden. ST A Lost. Muscidae, *Lispe tentaculata* De Geer. See Persson, Pont & Michelsen 1984: 93.
- tenur** Harris, 1780: 112, pl. 33, fig. 59 (*Musca*). England. T A Unknown. Syrphidae, *Neosasia tenur* Harris. See Thompson 1981b: 476.
- tenur* Harris, 1780: index (*Musca*). Incosp. *tener* Harris. Sciomyzidae. Name status by present revision.
- teres** Gmelin, 1790: 2861 (*Musca*). Europe. T A UNKNOWN.
- terminata** Wiedemann, 1830: 414 (*Musca*). Sierra Leone. T ♂ NMW. Calliphoridae, *Isomyia terminata* Wiedemann.
- terraereginae* Johnston & Bancroft, 1920b: 20 (*Musca*). *Nomen nudum*. Australia, Queensland. Muscidae, *Musca terraereginae* Johnston & Bancroft. [also 1920c: 34, 1920d: 73].
- terraereginae** Johnston & Bancroft, 1920e: 31 (*Musca*). Australia, Queensland, Eidsvold. LT ♂ QMB. Muscidae, *Musca terraereginae* Johnston & Bancroft. Lectotype designated by Pont 1973: 180.
- terrestris** Linnaeus, 1767: 996 (*Musca*). Sweden. T A LSL.
- tessella** Turton, 1801: 604 (*Musca*). Emend. *Musca tessellata* Fabricius. Tachinidae, *Tachina tessella* Turton. **N. Status**
- tessellata** Geoffroy, 1785: 476 (*Musca*). France, Paris. T A Author.
- tessellata* Fabricius, 1794: 324 (*Musca*). Germany. T A UZMC F. Tachinidae, *Tachina tessella* Turton. Preocc. Geoffroy 1785. **N. Syn.**
- tessellata* Fabricius, 1805: 285 (*Musca*). South America. HT ♀ UZMC. Sarcophagidae, *Euboettcheria australis* Townsend. Preocc. Geoffroy 1785. See Townsend 1931a: 74; Pape 1986: 303.
- testacea** De Geer, 1776: 87 (*Musca*). Sweden. LT ♂ NRS. Anthomyiidae, *Pegomya testacea* De Geer. Lectotype designated by Persson, Pont & Michelsen 1984: 94.
- testacea* Fabricius, 1781: 440 (*Musca*). Germany. T A DESTROY. Muscidae, *Phaonia rufiventris* Scopoli. Preocc. De Geer 1776. See Michelsen 1979a: 190.
- testacea* Fabricius, 1787: 330 (*Stratiomys*). South America. T A UZMC F. Xylophagidae, *Coenomyia ferruginea* Scopoli.

- testaceus** Fabricius, 1805: 257 (*Sargus*). N. n. *Musca elongata* Fabricius. Stratiomyidae, *Plecticus testaceus* Fabricius.
- teste** Zielke, 1971c: 126 (*Musca*). *Nomen nudum*. Muscidae, *Musca lusoria* Wiedemann. Published in synonymy, not subsequently validated by usage. Mistake for *Musca lusoria* Wiedemann *teste* Bezzi!
- tetragona** Geoffroy, 1785: 484 (*Musca*). France, Paris. T A Author. Syrphidae.
- thalassina** Meigen, 1826: 54 (*Musca*). Germany, Stolberg. HT ♀ MNHNP. Calliphoridae, *Phormia regina* Meigen. See Rognes 1991a: 106.
- thuscia** Walker, 1849: 897 (*Musca*). Azores, Fayal. T ♀ BMNH. Calliphoridae, *Calliphora vicina* Robineau-Desvoidy.
- thymastri** Gmelin, 1790: 2876 (*Musca*). Subsequent Usage of *Syrphus thymastri* Fabricius. Syrphidae, *Paragus* sp.
- tiberina** Saccà, 1947: 128 (*Musca*, as *domestica* var.). *Nomen nudum*. T A UNKNOWN. Muscidae, *Musca domestica* Linnaeus.
- tibetana** Fan, 1978: 329, fig. 1 (*Musca*). Tibet, Nyingchi (*teste* Fan). T ♂ SIE. Muscidae, *Musca tibetana* Fan.
- tibialis** Gmelin, 1790: 2859 (*Musca*). Europe. T A NMI.
- tibialis** Walker, 1836: 355 (*Musca*). Brazil, Santa Catarina. T A BMNH. Muscidae, *Muscina stabulans* Fallén. Preocc. Gmelin 1790.
- tibiseta** Malloch, 1928: 334 (*Byomya*). Sumatra, Fort de Kock. HT ♂ Lost. Muscidae, *Musca seniorwhitei* Patton. See Pont 1970a: 105.
- tifata** Walker, 1849: 871 (*Musca*). China. T ♂ BMNH. Calliphoridae, *Lucilia papuensis* Macquart.
- tigrina** Fabricius, 1775: 779 (*Musca*). England. T A DESTROY. Muscidae, *Coenosia tigrina* Fabricius. See Michelsen 1979a: 190.
- timeo** Harris, 1780: 107, pl. 32, fig. 44 (*Musca*). England. T A Unknown. Syrphidae, *Platycheirus peltatus* Meigen. Name improperly formed (verb).
- timidus** Harris, 1780: 116, pl. 34, fig. 17 (*Musca*). England. T A Unknown. Acalyptrate.
- tipulaea** Geoffroy, 1785: 497 (*Musca*). France, Paris. T A Author.
- tipularia** Fabricius, 1794: 337 (*Musca*). Barbaria. T A MNHNP. Scathophagidae.
- tipuliformis** Gmelin, 1790: 2865 (*Musca*). Subsequent Usage of *Rhagio tipuliformis* Fabricius.
- tomentosa** Turton, 1801: 634 (*Musca*). Subsequent Usage of *Rhagio tomentosus* Fabricius. Rhagionidae, *Chrysopilus auratus* Fabricius.
- topiaria** Schrank, 1803: 126 (*Musca*). Germany, Bavaria, Ingolstadt. T A UNKNOWN.
- torosa** Wiedemann, 1819a: 21 (*Musca*). Bengal. T ♀ UZMC. Calliphoridae, *Bengalia torosa* Wiedemann.
- torvis** Harris, 1780: index (*Musca*). Incomp. *torvus* Harris. Tachinidae, *Ernestia rudis*? Fallén. Name status by present revision.
- torvus** Harris, 1780: 113, pl. 33, fig. 26 (*Musca*). England. T A Unknown. Tachinidae, *Ernestia rudis*? Fallén.
- totliana** Gmelin, 1790: 2850 (*Musca*). N. n. *Musca fasciata* Fabricius. Micropezidae, *Hoplocheiloma totliana* Gmelin. N. Comb.
- tranquebarica** Gmelin, 1790: 2870 (*Musca*). N. n. *Syrphus quadrilineatus* Fabricius. Syrphidae, *Eristalinus arborum* Fabricius.

- transfuga** Linnaeus, 1758a: 594 (*Musca*). Sweden. LT ♀ LSL. Syrphidae, *Lejops transfugus* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 160.
- transvaalensis** Zielke, 1971c: 120 (*Musca*). South Africa, Transvaal, Bloemhof. HT ♀ NMP. Muscidae, *Musca transvaalensis* Zielke.
- transversa** Fallén, 1825: 92 (*Musca*). Sweden, Skåne. LT ♂ NRS. Anthomyiidae, *Pegomya transversa* Fallén. Lectotype designated by Michelsen 1983: 118.
- trilineata** Harris, 1782: 58 (*Musca*). Missp. *trilenva* Harris. Syrphidae, *Helophilus pendulus* Linnaeus.
- tremula** Linnaeus, 1767: 991 (*Musca*). Emend. *temula* Scopoli. Tachinidae, *Zophomyia temula* Scopoli.
- triangula** Fallén, 1825: 74 (*Musca*). Sweden, Skåne, Äsperöd. LT ♂ NRS. Muscidae, *Linnophora triangula* Fallén. Lectotype designated by Pont 1984: 294.
- tricincta** Fabricius, 1805: 301 (*Musca*). South America. HT ♀ UZMC. Tachinidae, *Comatacta tricincta* Fabricius. See Townsend 1931a: 91.
- tricolor** Gmelin, 1790: 2861 (*Musca*). Europe. T A NMI.
- tridens** Bosc, 1792: 54 (*Musca*). France, Paris. T A MNHNP.
- trifascia** Walker, 1861b: 245 (*Musca*). New Guinea, Dorey. T ♀ BMNH. Calliphoridae, *Dexopollenia trifascia* Walker.
- trifasciata** Schrank, 1781: 453 (*Musca*). Subsequent Usage of *Conops trifasciata* Scopoli. Syrphidae, *Volucella inanis* Linnaeus.
- trigrammica** Schrank, 1803: 125 (*Musca*). Germany, Bavaria, Ingolstadt. T A Unknown.
- trileniata** Harris, 1780: index (*Musca*). Missp. *trilenva* Harris. Syrphidae, *Helophilus pendulus* Linnaeus.
- trilenva** Harris, 1776b: 58, pl. 15, fig. 9 (*Musca*). England. T A Unknown. Syrphidae, *Helophilus pendulus* Linnaeus.
- trilineata** Linnaeus, 1767: 980 (*Musca*). Sweden. T A LSL. Stratiomyidae, *Oxycera trilineata* Linnaeus. 1 sp. in LSL (Dear MS).
- trilineata** Harris, 1776b: 58 (*Musca*). Incosp. *trilenva* Harris. Syrphidae, *Helophilus pendulus* Linnaeus. Name status by present revision.
- trilineatus** Fabricius, 1775: 766 (*Syrphus*). New Zealand. T A BMNH B. Syrphidae, *Helophilus seelandicus* Gmelin.
- trimaculata** Geoffroy, 1785: 472 (*Musca*). France, Paris. T A Author.
- trinervis** Geoffroy, 1785: 489 (*Musca*). France, Paris. T A Author.
- tringaria** Linnaeus, 1758a: 590 (*Musca*). Sweden. T A LSL. Rhagionidae, *Rhagio tringarius* Linnaeus. 1 sp. in LSL (Dear MS).
- tripunctata** Scopoli, 1763: 329 (*Musca*). Idrija. T A DESTROY.
- tripunctata** Bjerkander, 1777: 33 (*Musca*). Sweden. T A UNKNOWN. Preocc. Scopoli 1763.
- tripunctata** Gmelin, 1790: 2861 (*Musca*). Europe. T A NMI. Preocc. Scopoli 1763.
- triquetra** Fallén, 1825: 73 (*Musca*). Subsequent Usage of *Anthomyia triquetra* Wiedemann. Muscidae, *Azelia triquetra* Wiedemann.
- tristis** Sulzer, 1776: 216 (*Musca*). Switzerland, Zürich. T A Unknown.
- tristis** Harris, 1780: 115, pl. 34, fig. 13 (*Musca*). England. T A Unknown. Sciomyzidae, *Coremacera marginata* Fabricius. Preocc. Sulzer 1776.
- tristis** Herbst, 1787: 110 (*Musca*). T A UNKNOWN. Tachinidae, *Allophora hemiptera* Fabricius. Preocc. Sulzer 1776.



- tristis* Schrank, 1803: 110 (*Musca*). Germany, Gern. T A Unknown. Syrphidae. Preocc. Sulzer 1776.
- tristor* Harris, 1780: 107, pl. 32, fig. 42 (*Musca*). England. T A Unknown. Syrphidae, *Pipiza noctiluca* Linnaeus. Name improperly formed (verb).
- trita* Walker, 1856a: 24 (*Musca*). Malacca. T ♀ BMNH. Muscidae, *Neomyia coeruleifrons* Macquart.
- troglogyta* Gmelin, 1790: 2832 (*Musca*). Subsequent Usage of *Bibio troglodyta* Fabricius. Bombyliidae, *Villa troglodyta* Fabricius.
- truncata* Bjerkander, 1777: 34 (*Musca*). Sweden. T A UNKNOWN.
- tuberculata* Müller, 1776: 177 (*Musca*). Denmark. T A Author.
- tuberculata* de Villers, 1789a: 428, pl. 9, fig. 12 (*Musca*). Southern France, St. Jean de Gardonnenque. T A Author. Bibionidae, *Dilophus novemmaculatus* de Villers. Preocc. Müller 1776.
- tuberculata* de Villers, 1789a: 550 (*Musca*). France, Cevennes Mts. T A Author. Preocc. Müller 1776.
- tuberis* Vallot, 1802: 131 (*Musca*). France. T A UNKNOWN. Heleomyzidae, *Suillia* sp. N. Comb.
- tuguriorum* Scopoli, 1763: 328 (*Musca*). Carniola. T A DESTROY. Muscidae, *Phaonia tuguriorum* Scopoli.
- turbida* Wiedemann, 1830: 396 (*Musca*). South Africa, Cape of Good Hope. T ♀ ZMHU. Calliphoridae.
- turbida* Walker, 1853b: 336 (*Musca*). Jamaica. T A DESTROY. Calliphoridae, *Cochliomyia macellaria* Fabricius. Preocc. Wiedemann 1830. [teste Pont].
- turcica* Geoffroy, 1785: 487 (*Musca*). France, Paris. T A Author.
- tussilaginis* Fabricius, 1775: 787 (*Musca*). Denmark. T A UZMC F. Tephritidae, *Terellia tussilaginis* Fabricius.
- ugandae* Emden, 1939: 84 (*Musca*, as *autumnalis* ssp.). Uganda, Burunga. LT ♂ BMNH. Muscidae, *Musca ugandae* Emden. Lectotype designated by Pont 1990: 169.
- uliginosa* Linnaeus, 1767: 983 (*Musca*). Europe. T A LSL. Stratiomyidae, *Nemotelus uliginosus* Linnaeus. 1 sp. in LSL (Dear MS).
- uliginosa* Fallén, 1825: 81 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Helina sexmaculata* Preysslner. Preocc. Linnaeus 1758. Lectotype designated by Pont 1984: 295.
- umbellatarum* Fabricius, 1775: 785 (*Musca*). England. T A UZMC F. Pallopteridae, *Palloptera umbellatarum* Fabricius.
- umbelliferarum* Scopoli, 1763: 349 (*Musca*). Carniola. T A DESTROY. Chloropidae, *Chlorops pumilionis* Bjerkander.
- umbraculata* Fabricius, 1794: 348 (*Musca*). France. T A MNHNP. Chloropidae, *Platycephala umbraculata* Fabricius.
- umbraculata* Fabricius, 1805: 294 (*Musca*). Denmark, Copenhagen. HT ♂ UZMC. Muscidae, *Musca domestica* Linnaeus. Preocc. Fabricius 1794. See Michelsen 1979a: 190.
- umbrarum* Linnaeus, 1758a: 599 (*Musca*). Europe. T A LSL. Sciomyzidae, *Dictya umbrarum* Linnaeus. 3 sp. in LSL (Dear MS).
- umbrifera* Walker, 1861c: 267 (*Musca*). Sulawesi, Tondano. HT ♂ BMNH. Calliphoridae, *Pollenia umbrifera* Walker. [teste Pont]. N. Comb.
- unguicornis* Scopoli, 1763: 335 (*Musca*). Carniola. T A DESTROY. Sciomyzidae, *Limnia unguicornis* Scopoli.

- ungulata** Linnaeus, 1758a: 598 (*Musca*). Europe. T A LSL. Dolichopodidae, *Dolichopus ungulatus* Linnaeus. 4 sp. in LSL (Dear MS).
- unicolor** Fabricius, 1805: 307 (*Musca*). Germany, Kiel. T A UZMC F. Pallopteridae, *Palloptera saltuum* Linnaeus.
- unisetula** Fan, 1965: 122 (*Musca*, as *tempestiva* var.). *Nomen nudum*. Korea, Kaicheng. HT ♂ SIE. Muscidae, *Musca tempestiva* Fallén. Varietal name proposed after 1960.
- univalvis** Turton, 1801: 632 (*Musca*). N. n. *Musca clavicornis* Fabricius. Syrphidae, *Ceriana clavicornis* Fabricius.
- unxia** Walker, 1849: 899 (*Musca*). Italy. LT ♂ BMNH. Calliphoridae, *Bellardia pandia* Walker. Lectotype designated by Schumann 1974: 253.
- urbanus** Harris, 1780: 153, pl. 45, fig. 85 (*Musca*). England. T A Unknown. Tachinidae, *Siphona geniculata* De Geer.
- urticae** Linnaeus, 1758a: 600 (*Musca*). Europe. T A LSL. Otitidae, *Ceroxys urticae* Linnaeus. 2 sp. in LSL (Dear MS).
- urticae**, Fabricius, 1794: 357 (*Musca*). Misid. *urticae* Linnaeus. Otitidae, *Seioptera vibrans* Linnaeus.
- vaccarum** De Geer, 1776: 85, pl. 5, fig. 1 (*Musca*). N. n. *Musca meteorica* Linnaeus. Muscidae, *Hydrotaea meteorica* Linnaeus.
- vaccina** Robineau-Desvoidy, 1863: 625 (*Musca*). France, Paris. T A DESTROY. Muscidae, *Musca domestica* Linnaeus.
- vacua** Scopoli, 1763: 346 (*Musca*). Carniola. T A DESTROY. Syrphidae, *Syrphus ribesii* Linnaeus.
- vacua** Fallén, 1817: 240 (*Musca*). Sweden. T A NRS. Tachinidae, *Dexia cincta* Robineau-Desvoidy. Preocc. Scopoli 1763. N. Comb.
- vagabunda** Meigen, 1826: 72 (*Musca*). Germany, Stolberg. LT ♀ MNHNP. Calliphoridae, *Pollenia vagabunda* Meigen. Lectotype designated by Rognes 1991aa: 238 & 1992: 109.
- vagens** Panzer, 1798b: 18 (*Musca*). Austria. T ♀ ZMHU. Anthomyiidae, *Hylemya vagans* Panzer.
- vagens** Fallén, 1825: 78 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Phaonia falleni* Michelsen. Preocc. Panzer 1798. Lectotype designated by Pont 1984: 295.
- vagatoria** Robineau-Desvoidy, 1830: 399 (*Musca*). France. T ♀ DESTROY. Muscidae, *Musca domestica* Linnaeus.
- vagus** Harris, 1780: 153, pl. 45, fig. 82 (*Musca*). England. T A Unknown. Psilidae, *Loxocera* sp.
- valens** Harris, 1780: 113, pl. 33, fig. 25 (*Musca*). England. T A Unknown. Sarcophagidae, *Sarcophaga* sp.
- valentina** Müller, 1766: 198 (*Musca*). Italy, Piedmont, Torino. T A DESTROY. Syrphidae, *Volucella zonaria* Poda.
- valga** Gmelin, 1790: 2879 (*Musca*). Europe. T A NMI. Syrphidae, *Chalcosyrphus valgus* Gmelin.
- valida** Wiedemann, 1830: 387 (*Musca*). Unknown (= South Carolina?). HT ♀ NMW. Tachinidae, *Theresia rutilans* Fabricius. Preocc. Harris 1780. See Townsend 1931a: 102.
- validus** Harris, 1780: 124, pl. 36, fig. 50 (*Musca*). England. T ♀ Unknown. Muscidae, *Phaonia valida* Harris.

- vallata Forster, 1770: 15 (*Musca*). *Nomen nudum*. England. T A LSL. Stratiomyidae, *Beris vallata* Forster.
- vallata Forster, 1771: 96 (*Musca*). England. T A LSL. Stratiomyidae, *Beris vallata* Forster.
- vanella Turton, 1801: 632 (*Musca*). Subsequent Usage of *Rhagio vanellus* Fabricius. Rhagionidae, *Rhagio tringaria* Linnaeus.
- varensis Robineau-Desvoidy, 1863: 627 (*Musca*). France, Var. T ♀ DESTROY. Calliphoridae, *Pollenia* sp.
- varia Gmelin, 1790: 2843 (*Musca*). Europe. T A NMI.
- varia Fabricius, 1794: 327 (*Musca*). India Orientali. HT A UZMC. Tachinidae, *Cuphocera iavana* Wiedemann. Preocc. Gmelin 1790. See Townsend 1932: 42; Crosskey 1973b: 134. N. Comb.
- varia Meigen, 1826: 66 (*Musca*). Germany, Stolberg. LT ♂ MNHNP. Calliphoridae, *Pollenia rudis* Fabricius. Preocc. Gmelin 1790. Lectotype designated by Rognes 1991a: 238. N. Comb.
- varia Walker, 1853b: 342 (*Musca*). South Australia. HT ♀ BMNH. Calliphoridae, *Amenia chrysame* Walker. Preocc. Gmelin 1790. See Crosskey 1965: 120.
- variabilis Gmelin, 1790: 2834 (*Musca*). N. n. *Stratiomys mutabilis* Fabricius. Stratiomyidae, *Hoplitimyia mutabilis* Fabricius.
- variabilis Fallén, 1823: 58 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Thricops nigrifrons* Robineau-Desvoidy. Preocc. Gmelin 1790. Lectotype designated by Pont 1984: 295.
- varians Wiedemann, 1830: 655 (*Musca*). Egypt. T ♀ SMF. Calliphoridae, *Lucilia cuprina* Wiedemann.
- varians Meigen, 1975: 418 (*Musca*). *Nomen nudum*. [Germany?]. T A MNHNP. Calliphoridae, *Pollenia vagabunda* Meigen. See Rognes 1992: 109.
- variata Fallén, 1823: 59 (*Musca*). Sweden, Skåne. LT ♂ NRS. Anthomyiidae, *Hylemya variata* Fallén. Lectotype designated by Hockett 1968: 346.
- varicolor Fabricius, 1805: 296 (*Musca*). India, Tranquebar. HT ♂ UZMC. Calliphoridae, *Bengalia varicolor* Fabricius. See Townsend 1931c: 371.
- varicus Harris, 1780: 114, pl. 34, fig. 12 (*Musca*). England. T A Unknown. Sciomyzidae.
- varicus Harris, 1780: 115, pl. 34, fig. 14 (*Musca*). England, Kent. T A Unknown. Sciomyzidae, *Limnia unguicornis* Scopoli. Preocc. Harris 1780.
- variegata Scopoli, 1763: 326 (*Musca*). Idrija. T A DESTROY. Sarcophagidae, *Sarcophaga variegata* Scopoli.
- variegata De Geer, 1776: 96, pl. 6, fig. 1 (*Musca*). [Sweden]. T A NRS. Sciomyzidae, *Euthycera chaerophylli* Fabricius. Preocc. Scopoli 1763.
- varieus Harris, 1780: index (*Musca*). Inosp. *varicus* Harris. Sciomyzidae, *Limnia unguicornis* Scopoli. Name status by present revision.
- variolosa Schrank, 1837: 18 (*Musca*). Germany, Bavaria. Platystomatidae, *Platystoma seminationis* Fabricius.
- vecors Harris, 1780: 154, pl. 45, fig. 89 (*Musca*). England. T A Unknown. Tephritidae.
- velox Bjerkander, 1777: 33 (*Musca*). Sweden. T A UNKNOWN.
- venatoria Fabricius, 1805: 285 (*Musca*). South America. HT ♂ UZMC. Tachinidae, *Scotiptera venatoria* Fabricius. See Townsend 1931a: 100.
- venosa Presl, 1822: 203 (*Musca*). Ligurian Prussian Amber. T A Unknown.

- ventito Harris, 1780: 139, pl. 41, fig. 30 (*Musca*). England. T A Unknown. Calliphoridae. Name improperly formed (verb).
- ventrosa Wiedemann, 1830: 656 (*Musca*). China. LT ♂ NMW. Muscidae, *Musca ventrosa* Wiedemann. Lectotype designated by Pont 1973: 164.
- verena Walker, 1849: 874 (*Musca*). Venezuela. T ♀ BMNH. Calliphoridae, *Compsomyiops verena* Walker. N. Comb.
- vermileo Linnaeus, 1758a: 590 (*Musca*). France. T A LSL. Vermileonidae, *Vermileo vermileo* Linnaeus.
- verna Fabricius, 1794: 330 (*Musca*). France. T A Lost. Muscidae, *Lispocephala verna* Fabricius. See Michelsen 1979a: 190; type figured by Coquebert 1804: 106.
- vernicina Scopoli, 1763: 333 (*Musca*). Upper Carniola. T A DESTROY. Lonchaeidae, *Lonchaea* sp.
- versicolor Gmelin, 1790: 2859 (*Musca*). Europe. T A NMI.
- versicolor Fabricius, 1794: 283 (*Syrphus*). Germany. T A UZMC F. Syrphidae, *Parhelophilus versicolor* Fabricius.
- versicolor Panzer, 1804: 140 (*Musca*). Germany, Regensburg. T A Unknown. Preocc. Gmelin 1790.
- versicolor Meigen, 1826: 77 (*Musca*). Austria. ST A Lost. Muscidae, *Dasyphora penicillata* Egger. Preocc. Gmelin 1790. See Pont 1986b: 250.
- versicolorata Turton, 1801: 639 (*Musca*). N. n. *Syrphus versicolor* Fabricius. Syrphidae, *Parhelophilus versicolor* Fabricius.
- versipellis Gmelin, 1790: 2859 (*Musca*). Europe. T A NMI.
- vesiculosa Turton, 1801: 646 (*Musca*). Subsequent Usage of *Syrphus vesiculosus* Fabricius. Syrphidae, *Copestylum vesiculosum* Fabricius.
- vespaesimilis Barbut, 1781: 300, pl. 16, fig. 2 (*Musca*). N. n. *Musca vespiformis* Linnaeus. Syrphidae, *Temnostoma vespiformis* Linnaeus. *Xanthogramma festiva* L. was the species actually figured!
- vespertina Fallén, 1823: 58 (*Musca*). Sweden. LT ♂ NRS. Muscidae, *Hebecnema vespertina* Fallén. Lectotype designated by Pont 1984: 295.
- vespiformis Linnaeus, 1758a: 593 (*Musca*). Sweden. LT ♂ LSL. Syrphidae, *Temnostoma vespiformis* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 161.
- vespiformis Geoffroy, 1785: 478 (*Musca*). France, Paris. T A Author. Syrphidae, *Xanthogramma festiva* Linnaeus. Preocc. Linnaeus 1758.
- vespillo Fabricius, 1794: 318 (*Musca*). Germany, Kiel. LT ♂ UZMC. Calliphoridae, *Bellardia vespillo* Fabricius. "HT not in Kiel, nor label" Townsend 1931a: 70. Lectotype designated by Rognes 1991a: 59.
- vetustissima Walker, 1849: 902 (*Musca*). Australia. HT ♀ BMNH. Muscidae, *Musca vetustissima* Walker. See Pont 1973: 148 & 1990: 169.
- vibrans Linnaeus, 1758a: 599 (*Musca*). Europe. T A LSL. Otitidae, *Seioptera vibrans* Linnaeus. 5 sp. in LSL (Dear MS).
- vibrans Harris, 1780: 122, pl. 35, fig. 43 (*Musca*). England. T A Unknown. Sepsidae, *Sepsis cynipsea* Linnaeus. Preocc. Linnaeus 1758.
- vicanus Harris, 1780: 152, pl. 45, fig. 78 (*Musca*). England. T A Unknown. Muscidae, *Drymeia vicana* Harris.
- vicaria Walker, 1853b: 348 (*Musca*). New Zealand. HT ♀ BMNH. Muscidae, *Musca domestica* Linnaeus. See Pont 1973: 169 & 1990: 170.



- vicina* Walker, 1849: 893 (*Musca*). Subsequent Usage of *Calliphora vicina* Robineau-Desvoidy. Calliphoridae, *Calliphora vicina* Robineau-Desvoidy.
- vicina* Macquart, 1851: 226 (*Musca*). America [=Martinique]. T ♂ MNHNP. Muscidae, *Musca domestica* Linnaeus.
- viduata* Linnaeus, 1758a: 598 (*Musca*). Sweden. LT ♂ LSL. Syrphidae, *Pipizella viduata* Linnaeus. Lectotype designated by Thompson *et al.* 1982: 161.
- vilis* Gravenhorst, 1807: 380 (*Musca*). Unknown, probably Germany. T A Lost. Muscidae.
- villeneuvii* Patton, 1922b: 74 (*Musca*). India, Kerala, Nilambur. ST A BMNH. Muscidae, *Musca villeneuvii* Patton. See Pont 1990: 170.
- villica* Gravenhorst, 1807: 378 (*Musca*). Unknown, probably Germany. T A Lost. Tachinidae.
- villosa* Turton, 1801: 655 (*Musca*). Subsequent Usage of *Stratiomys villosa* Fabricius. Stratiomyidae, *Lasiopa villosa* Fabricius.
- vinculata* Scudder, 1877: 758 (*Musca*). Colorado, White River [Oligocene]. T ☞ USNM.
- vinulus* Harris, 1780: 117, pl. 34, fig. 21 (*Musca*). England. T A Unknown. Tephritidae.
- violacea* Scopoli, 1763: 340 (*Musca*). Carniola. T A DESTROY. Stratiomyidae, *Sargus cuprarius* Linnaeus.
- violacea* Panzer, 1804: 209 (*Musca*). Germany, Regensburg. T A Unknown. Preocc. Scopoli 1763.
- violacea* Fabricius, 1805: 288 (*Musca*). South America. HT ♀ UZMC. Calliphoridae, *Choloroprocta idioides* Robineau-Desvoidy. Preocc. Scopoli 1763. See Michelsen 1979a: 191 & Dear 1985b: 114.
- violacea* Robineau-Desvoidy, 1830: 393 (*Byomya*). France, Saint-Sauveur. T ♀ DESTROY. Muscidae, *Musca tempestiva* Fallén.
- violacea* Meigen, 1838: 301 (*Musca*). Germany, Stolberg. HT ♂ MNHNP. Calliphoridae, *Protocalliphora azurea* Fallén. Preocc. Scopoli 1763. See Rognes 1991a: 116.
- violacea* Walker, 1853b: 335 (*Musca*). New Zealand. T ♀ BMNH. Calliphoridae, *Calliphora quadrimaculata* Swederus. Preocc. Scopoli 1763.
- viredaurea* Wiedemann, 1819a: 22 (*Musca*). Java. T ♂ UZMC. Calliphoridae, *Isomyia viredaurea* Wiedemann.
- virens* Scopoli, 1763: 342 (*Musca*). Carniola. T A DESTROY. Dolichopodidae, *Liancalus virens* Scopoli.
- virens* Thunberg, 1789: 91 (*Musca*). T A UNKNOWN. Preocc. Scopoli 1763.
- virens* Wiedemann, 1830: 409 (*Musca*). Java. T ♀ RNH. Calliphoridae, *Cosmina limbipennis* Macquart. Preocc. Scopoli 1763. N. Syn.
- virescens* Stephens, 1829: 307 (*Musca*). England. T A UNKNOWN. Muscidae, *Helina impuncta* Fallén. Published in synonymy, not subsequently validated by usage. Published in synonymy with *Anthomyia impuncta* Fallén.
- virescens* Meigen, 1838: 305 (*Musca*). Subsequent Usage of *Pollenia virescens* Macquart. Calliphoridae, *Pollenia vespillo* Fabricius.
- virginensis* Drury, 1773: 993 (*Musca*). Virginia. T A Author. Syrphidae, *Milesia virginensis* Drury.
- viridana* Panzer, 1804: 154 (*Musca*). Germany, Regensburg. T A Unknown.

- viridaurea* Wiedemann, 1830: 397 (*Musca*). Missp. *viredaurea* Wiedemann. Calliphoridae, *Isomyia viredaurea* Wiedemann.
- viridescens* de Villers, 1789a: 548 (*Musca*). France, Massiliae [=Marseille]. T A Author. Tephritidae. Preocc. de Villers 1789: 463.
- viridescens* de Villers, 1789a: 463, pl. 9, fig. 24 (*Musca*). Southern France, Marseille. T A Author. Syrphidae, *Microdon* sp.
- viridescens* Walker, 1849: 895 (*Musca*). Subsequent Usage of *Calliphora viridescens* Robineau-Desvoidy. Calliphoridae, *Calliphora viridescens* Robineau-Desvoidy.
- viridi-caerulea* De Geer, 1776: 62 (*Musca*). N. n. *Musca cadaverina* Linnaeus. Calliphoridae, *Lucilia caesar* Linnaeus.
- viridula* Gmelin, 1790: 2835 (*Musca*). Subsequent Usage of *Stratiomys viridula* Fabricius. Stratiomyidae, *Oplodontha viridula* Fabricius.
- virata* Geoffroy, 1785: 475 (*Musca*). France, Paris. T A Author.
- vitreus* Harris, 1776: 48, pl. 11, fig. 10 (*Musca*). England. T A Unknown. Stratiomyidae, *Microchrysa polita* Linnaeus.
- vitripennis* Meigen, 1826: 73, pl. 43, fig. 34 (*Musca*). France, Fontainebleau. HT ♂ MNHNP. Muscidae, *Musca vitripennis* Meigen. See Pont 1986b: 250.
- vittata* Fabricius, 1794: 355 (*Musca*). Guinea. T A UZMC F. Tephritidae, *Carpophthoromyia vittata* Fabricius.
- vivax* Fabricius, Otto, 1780: 206 (*Musca*). Greenland, Millutarsuk. T A UZMC. Syrphidae, *Platycheirus cyaneus* Müller.
- vivipara* Geoffroy, 1785: 471 (*Musca*). France, Paris. T A Author.
- vivipara* Bezzi, 1911: 86 (*Musca*). Missp. *larvipara* Portschinsky. Muscidae, *Musca larvipara* Portschinsky.
- vivipara major* De Geer, 1776: 63, pl. 3, fig. 18 (*Musca*). *Nomen nudum*. N. n. *Musca carnaria* Linnaeus. Sarcophagidae, *Sarcophaga carnaria* Linnaeus. Not available; polynominal, not binominal.
- vivipara minor* De Geer, 1776: 70 (*Musca*). *Nomen nudum*. [Sweden]. T A NRS. Calliphoridae. Not available; polynominal, not binominal.
- volets* Harris, 1780: 84, pl. 25, fig. 12 (*Musca*). England. T A Unknown. Tachinidae, *Dexiosoma caninum* Fabricius.
- volito* Harris, 1780: 122, pl. 36, fig. 46 (*Musca*). England. T A Unknown. Anthomyiidae, *Hylemya vagans* Panzer. Name improperly formed (verb).
- volvulus* Fabricius, 1794: 328 (*Musca*). Italy. T A UZMC F. Tachinidae, *Phyllomya volvulus* Fabricius.
- vomitorea* Linnaeus, 1758a: 595 (*Musca*). Europe & America. T A LSL. Calliphoridae, *Calliphora vomitorea* Linnaeus. 2 sp. in LSL (Dear MS).
- vorax* Geoffroy, 1785: 486 (*Musca*). France, Paris. T A Author. Syrphidae.
- vulpina* Fabricius, 1775: 776 (*Musca*). Europe. LT ♂ UZMC F. Muscidae, *Graphomya maculata* Scopoli. Lectotype designated by Michelsen 1979a: 191.
- vulpina* de Villers, 1789: 554 (*Musca*). Subsequent Usage of *Musca vulpina* Fabricius. Muscidae, *Graphomya maculata* Scopoli.
- wittweri* Zielke, 1974: 12 (*Musca*). Kenya, 26 Miles SW Nairobi. HT ♂ CAS. Muscidae, *Musca wittweri* Zielke.
- xanthomela* Walker, 1859b: 139 (*Musca*). Sulawesi, Makassar. HT ♀ BMNH. Muscidae, *Musca ventrosa* Wiedemann. See Pont 1990: 170.
- xanthomelas* Wiedemann, 1824: 49 (*Musca*). Java. T ♀ UZMC. Muscidae, *Musca xanthomelaena* Wiedemann.

- yerburyi* Patton, 1923b: 329 (*Musca*). N. n. *Musca incerta* Patton. Muscidae, *Musca pattoni* Austen.
- zonalis* Turton, 1801: 644 (*Musca*). Subsequent Usage of *Syrphus zonalis* Fabricius. Syrphidae, *Phytomia zonata* Fabricius.
- zonaria* Schrank, 1781: 454 (*Musca*). Subsequent Usage of *Conops zonaria* Poda. Syrphidae, *Volucella zonaria* Poda.
- zonatus* Fabricius, 1787: 337 (*Syrphus*). China. T A UZMC. Syrphidae, *Phytomia zonata* Fabricius.

## Index to names by biogeographical realm

**Afrotropical:** *afra*, *africa*, *africana*, *alba*, *albiceps*, *albomaculata*, *alpesa*, *beckeri*, *bibula*, *bigemmis*, *biseta*, *braesia*, *calisia*, *calleva*, *capensis*, *chloropyga*, *chrysotelus*, *congolensis*, *curviforceps*, *cuthbertsoni*, *cyanea*, *dasyops*, *dichotoma*, *distincta*, *dorsomaculata*, *elara*, *elatior*, *elongata*, *ethiopica*, *eustolia*, *exalbida*, *fasciata*, *freedmani*, *fucina*, *gabonensis*, *guineensis*, *hauriens*, *hebes*, *heidiae*, *himella*, *hottentota*, *hugonis*, *inconstans*, *interrupta*, *interruptella*, *irwinrossi*, *kihuris*, *kweilinensis*, *lasiopa*, *lasiophthalma*, *leucocephala*, *leucomelas*, *liberia*, *lindneri*, *longipes*, *lothari*, *lugens*, *lusoria*, *luteola*, *marginalis*, *marsya*, *mazaca*, *megacephala*, *meruensis*, *moerens*, *munroi*, *natalensis*, *nevillei*, *obscura*, *patersoni*, *perlata*, *phara*, *polita*, *pseudocorvina*, *pulla*, *punctulata*, *pungoana*, *putoria*, *quadrilineata*, *quinquelineata*, *racilia*, *rufifrons*, *rufiventris*, *sanctae-helenae*, *sarsina*, *scatophaga*, *senegalensis*, *setulosa*, *somalorum*, *sorbens*, *spangleri*, *spectanda*, *spilogaster*, *splendens*, *splendida*, *stuckenbergi*, *tempestatum*, *terminata*, *teste*, *transvaalensis*, *turbida*, *ugandae*, *varians*, *vittata*, *wittveri*.

**Australian:** *angustifrons*, *antiquissima*, *aricioides*, *augur*, *australia*, *australis*, *benedicta*, *bilineata*, *bimaculata*, *calliphoroides*, *cassara*, *cingulatus*, *costalis*, *cuprea*, *dawsoni*, *diffusa*, *ditissima*, *donya*, *dorsalis*, *dubia*, *dux*, *eristaloides*, *extrema*, *fergusoni*, *fieldi*, *flavifacies*, *flavinervis*, *formosa*, *fulvimaculata*, *germana*, *gloriosa*, *hilli*, *hortona*, *icela*, *inconclusa*, *laemica*, *leonina*, *liris*, *lupina*, *macularis*, *marginifera*, *maronea*, *mesembrinoides*, *minor*, *mirabilis*, *nigricans*, *nigricruris*, *nitescens*, *obscura*, *obscurata*, *obtrusa*, *oceanica*, *opulenta*, *pacifica*, *patiens*, *placida*, *praecox*, *prisca*, *pumila*, *quadrimaculata*, *regalis*, *retusa*, *ruficornis*, *sacra*, *sarcophagoides*, *satyrus*, *seelandica*, *sinuata*, *solaia*, *sordidissima*, *splendida*, *sylvanus*, *tahitiensis*, *taitensis*, *terraereginae*, *trifascia*, *trilineatus*, *varia*, *vetustissima*, *vicaria*, *violacea*.

**Nearctic:** *americana*, *amoena*, *ascarides*, *aurulans*, *bibosa*, *cadaverum*, *cerasina*, *certima*, *clavata*, *cloacaris*, *compressa*, *contigua*, *familiaris*, *filata*, *flavipennis*, *groenlandica*, *harpysia*, *heraea*, *hirticollis*, *hydropica*, *idessa*, *ilerda*, *lilaea*, *mollis*, *monoculus*, *mortisequa*, *muralis*, *occidentis*, *ochrapesus*, *pennipes*, *picta*, *proxima*, *serva*, *stygia*, *valida*, *vicina*, *vinculata*, *virginiensis*, *viridescens*, *vivax*.

**Neotropical:** *acromion*, *aequinoctialis*, *agrorum*, *aldrichi*, *americana*, *analis*, *anceps*, *annonae*, *annulata*, *atrifrons*, *auriflua*, *aurulans*, *australis*, *basalis*, *basilaris*, *bicolor*, *bifasciata*, *bipuncta*, *brunnea*, *caruca*, *chilensis*, *cincta*, *cingulata*, *cluvia*, *compressa*, *concolor*, *consanguinea*, *contigua*, *costalis*, *crassa*, *crassicornis*, *crucis*, *cylindracea*, *cylindricus*, *dentipes*, *diaphana*, *dilecta*, *dispar*, *elongata*, *equestris*, *erythrocephala*, *esuriens*, *eximia*, *exinanita*, *fabricii*, *fasciata*, *fucata*, *fulvescens*, *gamelia*, *gibba*, *grisea*, *gulo*, *hirta*, *hortorum*, *hystrix*, *illucens*, *inanis*, *incerta*, *insularis*, *jamaicensis*, *laniaria*, *lasciua*, *lateralis*, *leprae*, *leucopa*, *longicornis*, *longipes*, *lucifer*, *lyrcea*, *macellaria*, *mactans*, *mutabilis*, *nigrana*, *nigriceps*, *nigrita*, *nitida*, *obesa*, *occidua*, *ochricornis*, *pallipes*, *pampasiana*, *petiolata*, *phauda*, *pica*, *pinguis*, *pionia*, *pratorum*, *punctata*, *purpurascens*, *purpurea*, *pusilla*, *putrida*,



quadrilineata, rufiventris, rutilans, scutellaris, segmentaria, semiatra, sensifera, stigma, stipata, stomoxidea, striata, suffusa, taniaria, tessellata, testacea, testaceus, tibialis, toliana, tricincta, turbida, variabilis, venatoria, verena, vesiculosa, violacea.

**Oriental:** abdominalis, adumbrata, aenea, affixa, albina, aruorum, arvorum, asiatica, aucta, azurea, bakeri, bata, bezzii, bivittata, chrysoides, chui, cinerea, cingalaisina, coeruleata, coerulea, collecta, combrea, conducens, confiscata, confixa, conflagrans, convexifrons, craggi, crassa, crax, crux, cuprina, defixa, delectans, determinata, diffidens, dioclea, discolor, divaricata, divisa, dotata, electa, ericetorum, errans, eutaeniata, exempta, favillacea, ferruginea, flavicans, flaviceps, fletcheri, formosana, fortunata, fumipennis, fuscipennis, gavisata, gibsoni, greeni, gurnei, gurneyi, hervei, histrionica, hoi, hortensia, hortulana, humilis, ieiuna, illingworthi, incerta, indica, inducta, inferior, infixata, ingens, inscribens, insignis, intrahens, jacobsoni, jeiuna, jejuna, kasauliensis, lar, larvipara, latifrons, latiparafrons, lauta, ligurriens, lineata, lucens, malaisei, mallochi, mediana, metilia, micans, minor, minuta, minutior, modesta, multispina, munda, *nancauriensis*, nebulo, negriabdomina, nigricornis, nigrithorax, niveisquama, optata, orientalis, pallens, pattoni, prefixa, phellia, pilifacies, pilosa, planiceps, polita, pollinosa, porphyrina, praedicens, prashadi, primitiva, proerna, proferens, promisca, promittens, prospera, pusillus, quadrilineata, quadrilineatus, quinquestriata, refixa, reflectens, remuria, ruficornis, rufifrons, salviae, santoshi, scapularis, selecta, seniorwhitei, serenissima, setigera, shanghaiensis, soror, sperata, sphinx, spinohumera, spinosa, squamata, striata, taenionota, temperata, tibiseta, tifata, torosa, tranquebarica, trita, troglodyta, umbrifera, unisetula, varia, varicolor, ventrosa, villeneuvei, viredaurea, virens, viridaurea, xanthomela, xanthomelas, yerburyi, zonalis, zonatus.

**Palearctic:** abbreviata, abdominalis, ablectus, abrupta, accincta, acuminata, adiphora, adpersus, adunata, aenea, aerea, aestiva, aestivationis, aestuans, aethiops, affinis, agilis, agilitas, agromyzina, alata, albicincta, albifrons, albimana, albipennis, albipes, albiseta, albolineata, albomicans, albula, alceae, alevo, allevo, alii, alni, alterabilis, alternata, altratus, aluta, ambigua, ambulans, amentaria, amica, amacula, amita, angelicae, angusticornis, anilis, annexa, annulata, annulatus, anteaumbulo, anteaumbulo, anthracina, anthrax, aphidioides, aphidivora, apiaria, apiformis, apivora, aquatica, aratoria, arbustorum, arctii, arcuata, ardea, argentata, argentea, argyrostoma, aristata, armipes, arnicae, arrogans, artemisiae, aselliformis, asiliformis, assimilis, ater, aterrima, atherix, atra, atramentaria, atrata, atratula, atratus, atricolor, atropos, auctus, audaculus, aurata, aurifacies, aurifrons, ausus, autumnalis, avarus, avenae, azurea, balteata, bardus, bicincta, bicinctata, bicolor, bicolora, bidentata, bifasciata, bilineata, bipunctata, blandus, boganiidae, bohémica, bombinatrix, bombylans, bombyliformis, bombylina, bombylius, bombyloides, borealis, bovina, brachyptera, brassicaria, brevis, brunnea, buccata, buphthalmi, cadaverina, caemeterium, caerulea, caeruleocephalica, caeruleoscens, caesar, caesarina, caesarian, caesia, caesio, calamitosa, calcarata, calcitrans, callosus, campestris, campicola, canicularis, canina, cannabina, canus, capitata, capito, capraria, capucina, characteristic, carbonaria, cardui, carinifrons, carnaria, carnarida, carnifex, carnivora, casei, caudata, caudex, cautus, cellaris, celsus, caemeterium, centaureae, cephalotes, cerasi, cerinus, chaerophylli, chalybaea,

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rufipalpis, rufipes, rufiventris, rufomaculata, rugosa, rumicis, ruralis, rustica, rutillus, rutilo, sabaeus, sacalis, saltatrix, saltitans, saltuum, sandaracha, sanio, saniosa, sannio, scabiosae, scalaris, scitule, scitulus, scitus, scolopacea, scolopacina, scripta, scutata, scutellaris, scutellata, scybalaria, secalis, segetum, segmentaria, segnis, sellata, semiargentata, semiargentea, semicaerulea, semiflava, semiluctifera, seminationis, semirufa, semulater, semulator, senilis, seplasia, sepulchralis, sepulchralis, serena, sericata, sericea, serpo, serrata, serratula, serratulac, setaria, seticornis, setosa, sexdentata, sexmaculata, sexpunctata, sigmoidea, signata, silentis, silvarum, silvestris, similis, simulator, sinensis, singenesiae, singularius, smaragdina, socia, socio, sollicitus, solivagus, solor, solstitialis, sonchi, sordida, spatula, specularifera, sphegea, spinifera, spinipes, spitzbergensis, splendida, spoliata, spondylii, squalida, squamata, squamifera, stabulans, stellata, stercoraria, stictica, stigma, stimulans, striata, strigata, strigosa, strigula, striolata, structus, strumosa, stuans, stylata, subcoleoptrata, subcutanea, sublatus, subpuncta, subsultans, subtomentosa, subulata, subvariegata subventus, succincta, suecica, sugillatrix, suilla, surinamensis, sylvarum, syngenesiae, tabaniformis, tachinoides, taeniata, tarda, tardigradus, tarditas, tartidus, tau, tegularia, tempestiva, temula, tenax, tenebricus, tener, tentaculata, tenur, teres, terrestris, tessella, tessellata, testacea, tetragona, thalassina, thuscia, thymastri, tiberina, tibetana, tibialis, tigrina, timeo, timidus, tipulaea, tipularia, tipuliformis, tomentosa, topiaria, torvis, torvus, transfuga, transversa, trelineata, tremula, triangula, tricolor, tridens, trifasciata, trigrammica, trileniata, trilenva, trilineata, trimaculata, trinervis, tringaria, tripunctata, triquetra, tristis, tristor, truncata, tuberculata, tuberis, tuguriorum, turcica, tussilaginis, uliginosa, umbellatarum, umbelliferarum, umbraculata, umbrarum, unguicornis, ungulata, unicolor, univalvis, unxia, urbanus, urticae, vaccarum, vaccina, vacua, vagabunda, vagans, vagatoria, vagus, valens, valentina, valga, validus, vallata, vanella, varensis, varia, variabilis, varians, variata, varicus, variegata, varieus, variolosa, vecors, velox, venosa, ventito, vermileo, verna, vernicina, versicolor, versicolorata, versipellis, vespasimilis, vespertina, vespiformis, vespillo, vibrans, vicanus, viduata, villosa, vinulus, violacea, virens, virescens, viridana, viridescens, viridi-caerulea, viridula, vitrata, vitreus, vitripennis, vivipara, vivipara major, vivipara minor, volets, volito, volvulus, vomitoria, vorax, vulpina, zonaria.

**Unknown:** atra, bicolor, capensis, carinata, castanea, colombaschensis, costata, doclea, elevata, flavipes, fusca, gigantea, helvola, leucosticta, melanoptera, rubiginosa, ruralis, solstitialis, syrphus, vilis, villica.



## Index to names by current taxonomic position

- Acalyptate: commoror, comoror,  
     hirsuta, leporinus, sigmoidea,  
     simulater, simulator, timidus.
- Acanthiophilus: helianthi.
- Acanthiptera: inanis.
- Acinia: fucata, furcata.
- Aciura: coryli.
- Acrocera: orbiculus.
- Acroceridae: gibbosa, orbiculus.
- acromion: longipes.
- Actia: resinellae.
- Adia: cinerella.
- aeneus: leucocephala, macrophthalma,  
     punctata.
- aethiops: scatophaga.
- Agria: affinis.
- alba: cinerea.
- albiceps: bibula, elara, emoda, felix,  
     himella.
- albicinctus: albicincta.
- albifrontalis: australis.
- albina: beckeri, speculifera.
- albiseta: aratoria, crocus, oratoria.
- albonotata: prospera.
- alceae: demandata.
- aldrichi: esuriens.
- Alliopsis: silvestris.
- Allophora: affinis, hemiptera, nebulosa,  
     subcoleoptera, tristis.
- alpesa: congolensis.
- Amenia: leonina, varia.
- amentaria: nigrina, nitens.
- amita: amica.
- Anabarynchus: bilineata.
- Anapunophyto: pusilla.
- Angiometopa: ruralis.
- angulicornis: erinacea.
- anilis: flavipes, ochropus.
- Anisopodidae: bilineata, cinctus, fuscata,  
     nigricans, punctatus, succincta.
- annexa: bifasciata, dizonias.
- annulatus: annulata.
- Anomoia: permundus, purmundus.
- Anthomyia: litus, pluvialis.
- Anthomyiidae: albicincta, albula,  
     ambigua, auctus, audaculus, bicolor,  
     buccata, cinerea, cinerella, coarctata,  
     comio, comis, conformis, conica,  
     decore, dubia, dubitata, exactus,  
     excors, exilis, flavipennis, flavipes,  
     floralis, fungorum, grisea, hilaris,  
     lancifer, laticornis, lenio, lenis,  
     liturariae, litus, longula, myopina,  
     napobrassicae, parvula, pluvialis,  
     praepotens, processioneae,  
     pudectus, radicum, reditus, rufina,  
     rufipes, rumicis, silvestris, socia,  
     solor, strigosa, striolata, structus,  
     testacea, transversa, vagans, variata,  
     volito.
- Anthomyiidae?: cristata.
- Anthrax: aethiops, anthrax.
- Anthrax: hottentotta.
- antiqua: liturariae.
- Aphysura: dubia.
- aquatica: graminum.
- arborum: horticola, nemorum,  
     paralleli, parralleli, parrelleli.
- Archytas: diaphana, hystrix, pilosa.
- Arctophila: fulvus, mussitans.
- arcuatum: arcuata, bipunctata, festiva,  
     imbellis.
- Argyra: diaphana, ludeus, semiargentata,  
     semiargentea.
- argyrocephala: frontalis, leucocephala.
- arrogans: cimecoides, cimicoides.
- arvorum: aruorum, quadrilineatus,  
     tranquebarica.
- Asarkina: ericetorum, salviae.
- aterrima: brevis.
- Athericidae: atherix, chrysopus, flavipes,  
     maculatus.
- Atherix: atherix, chrysopus, flavipes,  
     maculatus.
- atra: aterrima.
- atriceps: boganiidae.
- Auchmeromyia: luteola.
- audacula: audaculus.
- augur: dorsalis.
- auratus: tomentosa.
- auriceps: opulenta.
- aurifinis: auriflua.
- aurulenta: evonymellae.
- australis: donysa, maronea, tessellata.

- autissiodorensis: flavipalpis.  
 autumnalis: bovina, campestris,  
     continua, coruina, corvina, floralis,  
     grisella, ludifacies, ludifica, ovipara,  
     prashadii, prostrata, rau, restituito,  
     restituo, riparia, rustica, tau.  
 Azelia: ornate, triquetra.  
 azurea: pervenio, reviso, violacea.  
 Baccha: elongata, perexilis, perexillis.  
 Bactrocera: ferruginea.  
 Bactromyia: evonymellae.  
 barda: americana.  
 Baumhaueria: angusticornis.  
 Bellardia: agilis, dolens, pandia,  
     puberula, pusilla, unxia, vespillo.  
 Belvosia: aldrichi, bifasciata, esuriens.  
 Bengalia: favillacea, ieiuna, jeiuna,  
     jejuna, pallens, torosa, varicolor.  
 Beris: chalybata, chalybea, chalybeata,  
     clavipes, rex, sexdentata, similis,  
     vallata.  
 bezzii: pilosa.  
 Bibio: bidentata, hortulana.  
 Bibionidae: bidentata, ciliata, hortulana,  
     novemmaculata, tuberculata.  
 bicinctum: bicincta, bicinctata, callosus.  
 bilineatus: bilineata.  
 Billaca: rutilans, sensifera.  
 bipunctatus: bipunctata.  
 Blaesoxipha: lineata.  
 Blattariae: lithophila.  
 Blera: fallax, ruficaudis, semirufa.  
 Blondelia: pinivorae.  
 Bogosiella: fasciata.  
 bombylans: hirsutissima, melanopyrrha,  
     plumata, plumosa.  
 Bombyliidae: aethiops, anthrax, bicolora,  
     capucina, denigrata, fusca, hirsuta,  
     hottentotta, lar, lucifer, maura,  
     melanoptera, morio, nigrita,  
     polyzonias, sabaecus, satyrus, sphinx,  
     sylvanus, troglodyta.  
 Bombyliidae?: capensis.  
 Borophaga: subsultans.  
 Botanophila: cinerea, striolata.  
 Bothrophora: lupina.  
 Brachyopa: arcuata, conica.  
 Bradysia: maura, morio.  
 brassicaria: cylindrica.  
 brunneum: brunnea, esuriens, exinanita,  
     inanis.  
 cadaverina: aurulans, compressa, ilerda,  
     lilaea, mortisequa.  
 caesar: azurea, cadaverina, fulges,  
     ruficeps, splendida, viridi-caerulea.  
 caesio: lychnidis.  
 calcitrans: occidentis, pungens.  
 calleva: cuthbertsoni.  
 Calliopomyia: glabrata.  
 Calliphora: affinis, aucta, augur,  
     australis, carnaria, carnivora,  
     coerulea, dorsalis, erythrocephala,  
     flavipalpis, fulvimaculata, genarum,  
     laemica, laticornis, minimus,  
     obscoena, placida, quadrimaculata,  
     sacra, scutellata, spitzbergensis,  
     stygia, thuscia, vicina, violacea,  
     viridescens, vomitoria.  
 Calliphoridae: abdominalis, accincta,  
     affinis, agilis, albiceps, alni,  
     amentaria, anthracina, atramentaria,  
     aucta, augur, aurulans, australis,  
     azurea, bata, bibula, bicolor,  
     bigemmis, bivittata, boganidae,  
     cadaverina, cadaverum, caerulea,  
     caerulescens, caesar, caesarina,  
     caesarion, calliphoroides, carnaria,  
     carnarida, carnivora, caruca, certima,  
     chalybaea, chilensis, chloropyga,  
     chrysocephala, chrysoides,  
     chrysonrhoea, cinerea, cluvia,  
     coerulea, cognata, collecta, combrea,  
     compressa, concinna, confixa,  
     conflagrans, consobrinus, costalis,  
     cuprea, cuprina, defixa, degener,  
     delectans, depressa, diffusa, dioclea,  
     discolor, ditissima, divisa, dolens,  
     doronici, dorsalis, dotata, dubia, dux,  
     elara, emoda, equestris, eristoloides,  
     erythrocephala, exempta, eximia,  
     familiaris, fasciata, favillacea, felina,  
     felix, flavicans, flaviceps, flavipalpis,  
     floralis, fortunata, fucina, fulges,  
     fulvicornis, fulvimaculata,  
     fulvipalpis, fumipennis, fuscipennis,  
     gamelia, genarum, gentilis, germana,

- gloriosa, groenlandica, hebes,  
 hederacea, himella, hortona, icela,  
 ieiuna, ilderda, illustris, impavida,  
 incerta, inconclusa, inducta, infixa,  
 ingens, inscribens, insularis,  
 intermedia, ionia, jeiuna, jejuna,  
 laemica, lagyra, laniaria, lanio,  
 laticornis, leonina, leucocephala,  
 leucoptera, ligurriens, lilaea, lunata,  
 luteola, lyrcea, macellaria, macularis,  
 malansi, marginalis, marginifera,  
 megacephala, melanoptera,  
 mesembrinoides, metilia, micans,  
 minima, minimus, mollis,  
 mortisequa, mortuorum, munda,  
 muralis, nana, nigriceps, nigrina,  
 nigromarginata, nitens, nitescens,  
 nobilis, obscoena, obscura, obscurata,  
 olivacea, opulenta, orientalis, orior,  
 pallens, pandia, parvula, patiens,  
 perlata, pervenio, phauda, phellia,  
 pionia, placida, polisma, porphyrina,  
 promittens, prospera, proxima,  
 pruinosa, puberula, pulchra, pumila,  
 punctulata, purpurascens, purpurea,  
 pusilla, putoria, putrida,  
 quadrilineata, quadrimaculata, recta,  
 recurro, reflectens, regalis, regina,  
 remigro, remuria, reviso, rudis,  
 ruficeps, ruficornis, rufipalpis,  
 rufipes, sacra, sarcophagoides,  
 scutellata, segmentaria, selecta,  
 semicaerulea, sepulcralis,  
 serenissima, sericata, serva, silvarum,  
 solaia, sordida, spitzbergensis,  
 splendida, stygia, suffusa, taniaria,  
 tegularia, temperata, terminata,  
 thalassina, thuscia, tifata, torosa,  
 trifascia, turbida, umbrifera, unxia,  
 vagabunda, varensis, varia, varians,  
 varicolor, ventito, verena, vespillo,  
 vicina, violacea, viredaurea, virens,  
 virescens, viridaurea, viridescens,  
 viridi-caerulea, vivipara minor,  
 vomitoria.
- Calobata: petronella.  
 Calocarcelia: cingulata.  
 Calythea: albicincta.
- campestris: macrocephala.  
 campestris?: cephalotes.  
 canicularis: lateralis, minor, socio.  
 caninum: canina, chrysostoma, volets.  
 cannabina: alternata, balteata, elegans,  
 inaequalis, nectareus, nectarina,  
 scitule, scitulus.  
 Capnoptera: scutata.  
 Carcelia: processioneae.  
 Cardiacephala: longipes.  
 carnaria: vivipara major.  
 carnaria?: colossus.  
 Carpophthoromyia: vittata.  
 casei: atrata.  
 Catapicephala: ingens, micans.  
 cautum: cautus.  
 celsa: celsus, quadrimaculata,  
 quadrimaculella, signata.  
 cimiteriorum: caemeteriorum, lineolata.  
 Centrophlebomyia: furcata.  
 ceratocera: cornuta.  
 Ceratolauxania: elevata.  
 Ceriana: adunata, conopsoides, univalvis.  
 Ceromyia: flaviceps.  
 Cerotelion: lineata, striata.  
 Ceroxys: hortulana, hyalinata, urticae.  
 chaerophylli: variegata.  
 Chaetotheresia: crassa.  
 Chalcosyrphus: femorata, longipes,  
 valga.  
 chalybata: chalybea, chalybeata,  
 sexdentata.  
 chalybeata: promano, promans.  
 chamaeleon: spatula.  
 Chamaemyiidae: atratula, gibbosa.  
 Chamaepsila: rosae.  
 Cheilosia: aenea, bardus, coryden,  
 corydon, flavicornis, fuiva, funebres,  
 funebris, funibres, hortulana,  
 illustratus, merulina, prasina, tarditas,  
 tartidus.  
 Chirosia: flavipennis.  
 Chloromyia: aurata, cicur, formosa.  
 Chloropidae: avenae, calamitosa,  
 clavicus, erro, frit, hordei, lepidus,  
 lineata, minuta, nasuta, nigra, pigra,  
 planifrons, pulchella, pumilionis,

- quadristrigata, saltatrix, scutata,  
strigula, umbelliferarum, umbraculata.
- Chloroprocta: purpurea.
- Chlorops: lepidus, lineata, nasuta,  
pulchella, pumilionis, quadristrigata,  
saltatrix, strigula, umbelliferarum.
- chloropyga: bigemmis, hebes, putoria.
- Chlororhinia: exempta.
- Cholomyia: acromion, longipes.
- Choloroprocta: violacea.
- chrysame: varia.
- Chrysogaster: caemeteriorum,  
cemiteriorum, lineolata, lucida,  
speculifera.
- Chrysomya: albiceps, bata, bibula,  
bigemmis, chloropyga, combrea,  
defixa, dux, elara, emoda, felix,  
flaviceps, hebes, himella, marginalis,  
megacephala, orientalis, putoria,  
remuria.
- Chrysopilus: asiliformis, cingulata,  
cristata, tomentosa.
- Chrysotoxum: arcuata, bicincta,  
bicinctata, bipunctata, callosus,  
cautus, chrysozonias, fasciata,  
fasciolata, festiva, imbellis.
- Chrysotus: nigripes.
- Chyliza: extenuata, leptogaster.
- Chyromya: flava, luteola, ochrapesus,  
oppidana.
- Chyromyidae: flava, luteola, ochrapesus,  
oppidana.
- cibaria: cothurnata.
- cincta: vacua.
- cinctus: cincta, succincta.
- cingulatus: pacifica.
- clausa: aenea.
- clavatus: clavata, filata.
- clavicornis: univalvis.
- clavipes: clauipes, curvipes.
- Clorismia: ardea.
- Clitellaria: coccinea, ephippium, inda,  
sellata.
- Clytiomyia: continua, deceptoria.
- coalescens: abdominalis.
- Cochliomyia: certima, erythrocephala,  
fasciata, laniaria, macellaria, phauda,  
taniaria, turbida.
- Coelopa: frigida.
- Coelopidae: frigida, relictus, simulator.
- Coenomyia: australis, crucis, ferruginea,  
grandis, olens, testacea.
- Coenosia: agromyzina, flavicornis,  
geniculata, intermedia, mollicula,  
pedella, pumila, rapax, tigrina.
- coeruleifrons: trita.
- Comatacta: tricincta.
- Compsobata: cibaria, cothurnata.
- Compsomyiops: caruca, gamelia, lyrcea,  
verena.
- Comptosia: sylvanus.
- conducens: kweilinensis, lineata, lucens,  
praecox, pulla, scapularis.
- Condylostylus: longicornis.
- confiscata: fasciata, minuta.
- conspersa: conspersus.
- convexifrons: gibsoni.
- convexifrons?: latiparafrons.
- Copestylum: brunnea, esuriens,  
exinanita, inanis, vesiculosa.
- Cordilura: puber, pubera.
- Cordyligaster: compressa, petiolata.
- Coremacera: cincta, cribrata, limbata,  
marginata, tristis.
- corni: pagana, princeps.
- cornicina: amoena, caesarion, chloris,  
connexa, cornicena, heraea, ingredior,  
puella, redeo.
- corrigiolata: filiformis, strumosa.
- corydon: coryden.
- coryleti: coryletti, reticulata.
- Cosmina: punctulata, virens.
- crassipennis: aurifrons, brachyptera,  
dimidiata, taeniata.
- crassipes: elephantopus.
- crassirostris: inconstans, insignis,  
modesta.
- Craticulina: rufifrons, tabaniformis.
- cristatus: cingulata, cristata.
- cruentatus: cruentata.
- crux: crax.
- Cuphocera: varia.
- cuprarius: capraria, cupraria, violacea.
- cuprea: nitens, rutilo.
- cuprina: fucina, serenissima, temperata,  
varians.



- Curtonotidae: gibba.  
 Curtonotum: gibba.  
 Cuterebra: americana.  
 Cuterebridae: americana, semiatra.  
 cyanella: mano.  
 cyaneus: agilitas, albimana, cyanea, vivax.  
 cyanicolor: occidentis, seplasia.  
 cyanophthalma: annulata.  
 cylindricornis: chrysoptera.  
 cylindricus: cylindracea.  
 Cylindromyia: brassicaria, cylindrica.  
 cynipsea: elongata, vibrans.  
 Cynomya: aurulans, chrysocephala, compressa, ilderda, lilaea, mortisequa, mortuorum.  
 Cyrtoneurina: grisea.  
 Dacus: oleae.  
 Dasyphora: pratorum, versicolor.  
 Dasysyrphus: consisto, pinastri, pyrorum.  
 delectans: conflagrans.  
 Delia: albula, coarctata, dubia, floralis, liturariae, napobrassicae, radicum.  
 Delphinia: picta.  
 Dexia: germanica, plebeja, provenio, rustica, vacua.  
 Dexiosoma: canina, chrysostoma, volets.  
 Dexopollenia: trifascia.  
 diabolus: ciliata, spinipes.  
 diadema: rostrata.  
 Dialineura: anilis, flavipes, ochropus.  
 diaphana: ludeus.  
 diaphanus: diaphana.  
 Dictya: umbrarum.  
 diffidens: optata, prefixa, refixa.  
 Dilophus: ciliata, novemmaculata, tuberculata.  
 Dinera: carinifrons, ferina, grisescens.  
 Diplonevra: florea, florescens.  
 discalis: lateralis.  
 distincta: obscura.  
 Dolichopodidae: amicula, caudex, ciliata, diadema, diaphana, equestris, festiva, gibba, hebes, ingruo, ingrus, joco, lacustris, longicornis, ludeus, ludicrous, ludicrus, nigripes, nobilitata, notata, pallipes, plumipes, quadrifasciata, rostrata, sanio, sannio, semiargentata, semiargentea, squamata, squamifera, ungulata, virens.  
 Dolichopus: gibba, plumipes, squamata, squamifera, ungulata.  
 domestica: analis, antiquissima, atrifrons, aurifacies, aurulans, australia, australis, basilaris, campicola, chilensis, consanguinea, contigua, dawsoni, domestica major, flavifacies, flavinervis, flavipennis, frontalis, fulvescens, gymnosomea, harpyia, hottentota, lateralis, minor, multispina, nancauriensis, nebulo, nigricans, obscura, oceanica, pampasiana, pellucens, rivularis, rufifrons, rufiventris, sanctae-helenae, senegalensis, sordidissima, soror, stomoxidea, taitensis, tiberina, umbraculata, vaccina, vagatoria, vicaria, vicina.  
 domestica?: conosoma.  
 domitor: albolineata.  
 doronici: melanoptera.  
 Doros: conopsea, profuges, profugus.  
 dorsalis: ferruginea.  
 Dorycera: aquatica, graminum.  
 Drosophila: cellaris, erythrothralma, funebris, oenopota.  
 Drosophilidae: cellaris, coleoprata, erythrothralma, funebris, furta, oenopota.  
 Drymeia: decolor, hamata, mantes, mantos, vicanus.  
 Dryomyza: flaveola.  
 Dryomyzidae: flaveola, melinus, mellinus, mulinus.  
 dubia: luteola, placida.  
 Dufouria: promano, promans.  
 Ectophasia: aurifrons, crassipennis.  
 elata: alata, elater.  
 elegans: formosa.  
 Elgiva: cucularia, rufa, sollicitus.  
 eligans: elegans, interrupta.  
 Emmesomyia: socia.

- Empididae: arrogans, cimécoides, cimécoides, cursitans, cursoria, globulipes, grossipes.
- Engistoneura: lugens, moerens.
- Ensina: sonchi, subcutanea.
- ephippium: coccinea, inda, sellata.
- Ephyrididae: manicata, mantis.
- Epistrophe: elegans, eligans, formosus, interrupta.
- Epsyrphus: alternata, balteata, cannabina, elegans, inaequalis, nectareus, nectarina, scitule, scitulus.
- equestris: bombylifformis.
- Eriothrix: demano, dimano, lateralis, rufomaculata.
- Eriozona: erratica.
- Eristalinus: aruorum, arvorum, ater, leucocephala, macrophthalma, melanius, punctata, quadrilineatus, quinquelineatus, quinquestriata, sepulchralis, tranquebarica.
- Eristalis: americana, apiformis, arbustorum, cinctus, cryptarum, fuscus, horticola, interruptus, intricaria, intricata, leneatus, lineatus, lineolae, lunula, lyra, murorum, nemorum, obfuscata, oestracea, paralleli, parralleli, parrelleli, porcina, tenax.
- Ernestia: puparum, redambulo, torvis, torvus.
- errans: erratica.
- Euboettcheria: tessellata.
- Eudasyphora: cyanella, mano, occidentis, seplasia.
- Euleia: centaureae, flauescens, heraclii, onopordinis, subcutanea.
- Eumerus: lineata, lunata.
- Eumesembrinella: quadrilineata.
- Euphranta: connexa, crax, crux.
- Euphumosia: bivittata, calliphoroides, eristoloides.
- Eurychaeta: alni.
- Eustalomyia: hilaris.
- Euthycera: chaerophylli, fumigata, rufifrons, variegata.
- Eutrichota: praepotens.
- Euxesta: annonae, costalis.
- eucta: euctus, lucorum.
- eximia: insularis.
- Exoprosopa: capucina.
- Exorista: larvarum, larvincola, major larvarum, monachae.
- fabricii: cincta.
- fallax: ruficaudis, semirufa.
- falleni: ruralis, vagans.
- Fannia: alevo, allevo, canicularis, clemens, fuscula, lateralis, lepida, lustrator, minor, minor domestica, scalaris, serena, socio.
- Fanniidae: alevo, allevo, canicularis, clemens, fuscula, lateralis, lepida, lustrator, minor, minor domestica, scalaris, serena, socio.
- fasciata: cingulata.
- fasciata?: palmipes, properans.
- fasciatum: chrysozonias, fasciata.
- fasciolatum: fasciolata.
- femoralis: geniculata.
- femoratus: femorata, longipes.
- fenestralis: saltitans, senilis, spoliata, tarda.
- fenestratus: nigrita.
- fera: reccumbo, rerumbo.
- Ferdinanda: nitens, ruficornis, rutilo.
- fernandica: leucocephala.
- ferruginea: australis, crucis, grandis, olens, testacea.
- festiva: anteambulo, anteambulo, citrofasciata, citrofasciata, vespiformis.
- fimetaria: flava, rufa.
- flava: luteola, ochrapesus.
- flavipennis: quadrilineata.
- flavipes: chrysopus.
- fletcheri: jacobsoni.
- floralis: micans, sepulchralis.
- floreata: atropos.
- florescens: florea.
- forcipata: maura, morio.
- formosa: aurata, cicur.
- formosana: greeni, shanghaiensis.
- Formosia: mirabilis.
- frit: avenae, hordei, nigra.
- fuciformis: fusiformis.
- fulva: libatrix, ochracea.

- fulvicrura: caruca, gamelia, lyrcea.  
 fumigata: rufifrons.  
 funebres: funebris, funibres.  
 funebris?: cellaris, erythrophthalma,  
 oenopota.  
 fuscatus: fuscata, nigricans.  
 fuscipennis: punctulata.  
 gabonensis: natalensis.  
 gavis: chalybea.  
 genarum: laticornis.  
 geniculata: urbanus.  
 gentilis: caerulea, cognata.  
 Geomyza: combinata.  
 glaucia: depressa.  
 globosum: globosa.  
 globula: lingens.  
 gloriosa: costalis, diffusa.  
 Gonia: capitata, crassicornis, piniperdae.  
 goniaeformis: angusticornis.  
 Gonicocera: hartigii.  
 granditarsus: confusus, granditarsa,  
 ocymi.  
 Graphomya: adumbrata, compunctor,  
 compunctus, eustolia, idessa,  
 leucomelas, maculata, praedicens,  
 stipata, vulpina.  
 grisella: grisea.  
 grossulariae: formosus.  
 guttata: longipes.  
 Gymnosoma: cerinus, costata, globosa,  
 hemisphaerica, rotundata.  
 Haematobia: irritans.  
 halterata: maura.  
 halterata?: nigrita.  
 Hebecnema: nigricolor, nigrita,  
 vespertina.  
 Heleomyza: latrinarum, serrata.  
 Heleomyzidae: avarus, dejectus,  
 latrinarum, sandaracha, serrata,  
 tuberis.  
 Helina: atricolor, celsus, concolor,  
 confinis, consimilis, cornuta, deduco,  
 depuncta, evector, fictor, impuncta,  
 interpuncta, lucorum, obtusipennis,  
 quadrimaculata, quadrimaculella,  
 quadrum, reversio, revolo,  
 sexmaculata, signata, subpuncta,  
 uliginosa, virescens.  
 Heliozeta: helluo.  
 Helophilus: cingulatus, pacifica,  
 parallelus, parrallelus, pendula,  
 seelandica, trelineata, trileniata,  
 trilenva, trilineata, trilineatus.  
 Hemilucilia: segmentaria.  
 Hemipenthes: bicolora, denigrata,  
 hirsuta, maura, morio.  
 hemiptera: affinis, tristis.  
 Hemipyrellia: fortunata, leucocephala,  
 ligurriens, phellia, pulchra, solaia.  
 hennigi: rosae.  
 Heptatoma: pellita.  
 heracii: centaureae, onopordinis,  
 subcutanea.  
 Herina: frondescentiae.  
 Hermetia: illucens, leucopa.  
 Hilara: globulipes.  
 Hoplitomyia: mutabilis, variabilis.  
 Hoplocheiloma: fabricii, fasciata,  
 totliana.  
 hortensia: hortulana.  
 hortona: icela.  
 hortorum: importuna.  
 hortulanus: hortulana.  
 hugonis: longipes.  
 hyalinata: hortulana.  
 Hybos: grossipes.  
 Hydromyza: dorsalis.  
 Hydromyza: livens.  
 Hydrophoria: conica, dubitata, lancifer,  
 lenio.  
 Hydrotaea: armipes, ciliata, constane,  
 constans, curvipes, dentipes,  
 diabolus, glabricula, hirticeps,  
 ignavus, irritans, meteorica, spinipes,  
 vaccarum.  
 Hylemya: strigosa, vagans, variata,  
 volito.  
 hyoscyami: cinerea, leontodontis.  
 Hypoderma: ascarides.  
 Hypopygiopsis: fumipennis, infixa.  
 iavana: varia.  
 ibis: atherix.  
 ichneumonea: aristata.  
 idioidea: purpurea, violacea.  
 ieiuana: favillacea, jeiuna, jejuna.  
 ignava: ignavus, pigra.

- Ilione*: albiseta, aratoria, crocus, oratoria.  
*illucens*: leucopa.  
*illustrata*: fulva, illustratus.  
*illustris*: equestris, muralis, parvula.  
*impavida*: concinna.  
*impuncta*: interpuncta, revolo, virescens.  
*inanis*: annulatus, apivora, micans, trifasciata.  
*incana*: nemorum.  
*incisilobata*: striata.  
*incisuralis*: cuprea.  
*inferior*: gurnei, gurneyi.  
*ingruo*: ingrus.  
*intermedium*: costata.  
*interrupta*: fuscus, interruptus, lineolae, obfusca.  
*interruptella*: interrupta.  
*intricaria*: fuscus, intricata.  
*iridatus*: caerulescens, indicus, iridata.  
*Ischiodon*: nigra.  
*Isomero-cera*: quadrilineata.  
*Isomyia*: chrysoidea, confixa, conflagrans, delectans, ditissima, dotata, munda, reflectens, selecta, terminata, viredaurea, viridaurea.  
*Iteuthelaira*: esuriens.  
*jamaicensis*: nigrana, nigrita.  
*Keroplastidae*: lineata, longicornis, macroceras, striata.  
*labialis*: depressa.  
*labiata*: pallens.  
*lacustre*: lacustris.  
*laesus*: nigripes.  
*lancifer*: conica, dubitata.  
*larvarum*: erucarum, larvincola, major larvarum, monachae.  
*larvipara*: corvinoides, mesopotamiensis, vivipara.  
*lasciva*: lasciva.  
*Lasiopa*: villosa.  
*lasiophthalma*: polita.  
*latifrons*: obsoleta.  
*lauta*: polita, proerna.  
*Lauxania*: chrysoptera, cylindricornis.  
*Lauxaniidae*: caeruleophthalmica, chrysoptera, cylindricornis, deduco, elevata, glabrata, longipennis, lupulina, mulsus, quadripunctata.  
*Lejogaster*: metallina, politus.  
*Lejops*: femorata, interpunctus, transfuga.  
*lepida*: parcus.  
*Lespesia*: marmorata.  
*leucocephala*: semiargentata, semiargentea.  
*leucomelaena*: leucomelas.  
*Leucomyia*: cinerea.  
*Leucophora*: buccata, grisea.  
*Leucopis*: atratula.  
*Leucostoma*: aterrima, brevis.  
*Leucozonia*: asiliformis, depressa, glaucia, laternaria.  
*Leucozonia*: lucorum.  
*leucozonia*: lucozonia.  
*levida*: assimilis, borealis, levidus.  
*Liancalus*: virens.  
*ligurriens*: fortunata, solaia.  
*Ligyra*: satyrus, sphinx.  
*limbipennis*: virens.  
*Limnia*: flavifrons, unguicornis, varicus, varieus.  
*Limnophora*: notata, riparia, triangula.  
*lincensis*: longicornis.  
*lineata*: cinctus, lineatus, lineatus.  
*lineatus*: femorata.  
*Linnaemya*: investigator.  
*linogrisea*: lenio.  
*Lispe*: tentaculata.  
*Lispocephala*: verna.  
*Litorhina*: lar.  
*Lomatia*: sabaeus.  
*Lonchaea*: chorea, vernicina.  
*Lonchacidae*: chorea, vernicina.  
*longicornis*: strigata, tenebricus.  
*longipes*: atra.  
*longula*: parvula.  
*lopesi*: pusilla.  
*Lophosceles*: mutata.  
*Loxocera*: aristata, ichneumonea, vagus.  
*lucidula*: africana.  
*Lucilia*: azurea, cadaverina, caerulea, caerulescens, caesar, caesarina, caesarion, cluvia, cuprina, equestris, eximia, fucina, fulges, illustris, inducta, inscribens, insularis, ionia, lagyra, marginifera, metilia, muralis, nigriceps, nitescens, nobilis, parvula,



- pionia, porphyrina, purpurascens,  
 regalis, ruficeps, serenissima,  
 sericata, silvarum, splendida,  
 tegularia, temperata, tifata, varians,  
 viridi-caerulea.
- lucorum: asiliformis.  
 lugubris: dirae, moesta.  
 lunatus: lunata.  
 lurida: hirsuta.  
 lusoria: kihuris, spinohumera, teste.  
 lustrator: clemens.  
 lutaria: comito.  
 macellaria: certima, erythrocephala,  
 fasciata, lanitaria, phauda, taniaria,  
 turbida.  
 Macquartia: pubiceps.  
 Macrocera: longicornis.  
 macrocera: longicornis.  
 Macrocera: macroceras.  
 Macrorchis: meditata.  
 maculata: compunctor, compunctus,  
 vulpina.  
 maculatus: maculata.  
 maculipennis: arcuata.  
 magellanica: incerta.  
 mallochii: squamata.  
 Mallota: fuciformis, fusiformis.  
 marginata: cribrata, limbata, tristis.  
 marginifera: marginalis.  
 marmorea: flauescens.  
 marsya: chrysotelus.  
 Masicera: crassiseta.  
 maurus: denigrata, hirsuta, maura.  
 Medetera: diadema, rostrata.  
 Medinophyto: dilecta.  
 meditabunda: aluta, incurvata,  
 meditalnenda, nora.  
 megacephala: bata, combrea, dux,  
 flaviceps, remuria.  
 meigenii: annulata.  
 Melanomya: minima.  
 Melanophora: grossificationis,  
 interventum, roralis.  
 Melanostoma: facultas, mellina.  
 Melieria: crassipennis, gangraenosa.  
 Melinda: anthracina, caerulea, cognata,  
 gentilis.  
 mellinum: facultas, mellina.
- meridionalis: curvipes.  
 Merodon: bombylifformis, calcarata,  
 clauda, clauipes, crassipes, curvipes,  
 elephantopus, funesta, melancholica,  
 natans, segetum.  
 Meromacrus: cincta, pinguis, pratorum.  
 Meromyza: clavicrus, minuta, pigra,  
 saltatrix.  
 Mesembrina: apiaria, bombinatrix,  
 bombylina, bombylius, bombyloides,  
 discolor, meridiana, mystacea.  
 Mesembrinella: bicolor.  
 Mesoblatina: lithophila.  
 Metallea: cuprea.  
 metallina: politus.  
 Metasyrphus: corollae.  
 meteorica: constane, constans, vaccarum.  
 Metopia: frontalis, labiata, leucocephala.  
 Microchrysa: caesia, parvulus, polita,  
 vitreus.  
 Microdon: apiformis, devia, mutabilis,  
 nova, viridescens.  
 microleon: nigricans.  
 Micropeza: corrigiolata, filiformis,  
 strumosa.  
 Micropezidae: annulata, cibaria,  
 corrigiolata, cothurnata, ephippium,  
 fabricii, fasciata, filiformis, lasciua,  
 longipes, pedo, peragro, petronella,  
 strumosa, toliana.  
 Microtopesa: sinuata.  
 Milesia: crabroniformis, naevia,  
 semiluctifera, virginiensis.  
 miliaria: arcuata.  
 Minettia: longipennis, lupulina.  
 Mintho: cincta, compressa, praeceps,  
 rufiventris, rutilus.  
 minuta: minor, minutior, pusillus.  
 Morellia: affixa, basalis, bipuncta,  
 calisia, hortensia, hortorum,  
 hortulana, importuna, nitida,  
 ochricornis.  
 Morinia: doronici, melanoptera.  
 morio: bicolora.  
 mortuorum: chrysocephala.  
 muliebris: pulchella.  
 Musca: aethiops, afra, africana, alba,  
 albina, albipennis, albomaculata,

alpessa, amica, amita, analis,  
 angustifrons, antiquissima, asiatica,  
 atrifrons, aurifacies, aurulans,  
 australia, australis, autumnalis,  
 bakeri, basilaris, beckeri, bezzii,  
 biseta, bivittata, bovina, calleva,  
 campestris, campicola, capensis,  
 carnifex, cassara, chilensis, chui,  
 cingalaisina, conducens, confiscata,  
 congolensis, conosoma,  
 consanguinea, contigua, continua,  
 convexifrons, coruina, corvina,  
 corvinoidea, craggi, crassirostris,  
 cuprea, curviforceps, curvinervis,  
 cuthbertsoni, dasyops, dawsoni,  
 determinata, dichotoma, divaricata,  
 divisa, domestica, domestica major,  
 dorsomaculata, efflatouni, elatior,  
 ethiopica, eutaeniata, exalbida,  
 fasciata, fergusonii, fieldi, flavifacies,  
 flavinervis, flavipennis, fletcheri,  
 floralis, formosana, freedmani,  
 frontalis, fulvescens, fulvithorax,  
 gabonensis, gibsoni, greeni, grisella,  
 gurneyi, gurneyi, gymnosomea,  
 harpyia, heidiidae, hervei, hilli, hoi,  
 hottentota, hugonis, humilis,  
 illingworthi, incerta, inconstans,  
 indica, inferior, insignis, interrupta,  
 interruptella, irwinrossi, jacobsoni,  
 kasauliensis, kihuris, kweilinensis,  
 larvipara, lasiopa, lasiophthalma,  
 lateralis, latifrons, latiparaffrons,  
 liberia, lindneri, lineata, longipes,  
 lothari, lucens, lucidula, ludifacies,  
 ludifica, lusoria, malaisei, mallochi,  
 mediana, melanura, meruensis,  
 mesopotamiensis, minima, minor,  
 minuta, modesta, multispina, munroi,  
 nana, nancauriensis, natalensis,  
 nebulo, negriabdomina, nevilli,  
 nigricans, nigricruris, nigrithorax,  
 niveisquama, obscura, oceanica,  
 osiris, ovipara, pampasiana,  
 patersoni, pattoni, pellucens,  
 phasiaeformis, pilifacies, pilosa,  
 planiceps, polita, pollinosa, praecox,  
 prashadii, primitiva, prisca, promisca,

prostrata, pseudocorvina, pulla,  
 pumila, pungoana, pusilla, rau,  
 restituito, restituo, riparia, rivularis,  
 rufifrons, rufiventris, rustica,  
 sanctae-helenae, santoshi, scapularis,  
 scatophaga, senegalensis,  
 seniorwhitei, setigera, setulosa,  
 shanghaiensis, somalorum, sorbens,  
 sordidissima, soror, spangleri,  
 spectanda, speculifera, spinohumera,  
 spinosa, splendens, splendida,  
 squamata, stimulans, stomoxidea,  
 striatacta, stuckenbergi, sugillatrix,  
 taitensis, tau, tempestatum,  
 tempestaiva, terraereginae, teste,  
 tiberina, tibetana, tibiseta,  
 transvaalensis, ugandae, umbraculata,  
 unisetula, vaccina, vagatoria,  
 ventrosa, vetustissima, vicaria, vicina,  
 villeneuvei, violacea, vitripennis,  
 vivipara, wittweri, xanthomela,  
 xanthomelas, yerburyi.

muscaria?: alni.

Muscidae: adumbrata, aenea, aerea,  
 aethiops, affixa, afra, africana,  
 agromyzina, alba, albina, albigennis,  
 albolineata, albomaculata, alpessa,  
 aluta, amica, amita, amoena, analis,  
 angelicae, angustifrons, antiquissima,  
 apiaria, arcioides, armipes, asiatica,  
 assimilis, atra, atricolor, atrifrons,  
 aurifacies, aurulans, australia,  
 australis, autumnalis, bakeri, basalis,  
 basilaris, beckeri, benedicta, bezzii,  
 bipuncta, biseta, bivittata,  
 bombinatrix, bombylina, bombylius,  
 bombyloidea, borealis, bovina,  
 braesia, caesarion, caesia, calcitrans,  
 calisia, calleva, campestris,  
 campicola, capensis, carnifex,  
 cassara, celsus, chalybea, chilensis,  
 chloris, chrysotelus, chui, ciliata,  
 cinerascens, cingalaisina, coeo,  
 coeruleata, coerulea, compunctor,  
 compunctus, concolor, conducens,  
 confinis, confiscata, congolensis,  
 connexa, conosoma, consanguinea,  
 consimilis, constane, constans,

contigua, continua, convexifrons,  
 corni, cornicena, cornicina, cornuta,  
 coruina, corvina, corvinoides, craggi,  
 crassirostris, cuprea, curviforceps,  
 curvinervis, curvipes, cuthbertsoni,  
 cyanea, cyanella, dasyops, dawsoni,  
 decolor, deduco, dentipes, depuncta,  
 determinata, diabolus, diaphana,  
 dichotoma, diffidens, discolor,  
 dispar, distincta, divaricata, divisa,  
 domestica, domestica major, domitor,  
 donysa, dorsomaculata, efflatouni,  
 elatior, electa, erinacea, erratica,  
 ethiopica, eustolia, eutaeniata,  
 evector, exalbida, extranea, extrema,  
 fasciata, fergusonii, ficator, fieldi,  
 flavicornis, flavifacies, flavinervis,  
 flavipennis, fletcheri, floralis,  
 formosana, freedmani, frontalis,  
 fulvescens, fulvithorax, fuscata,  
 fuscipennis, gabonensis, gavisata,  
 geniculata, gibsoni, glabricula,  
 greeni, grisea, grisella, guineensis,  
 gurnei, gurneyi, gymnosomea,  
 hamata, harpyia, heidiaea, heraea,  
 hervei, hilli, hirticeps, hoi, hortensia,  
 hortorum, hortulana, hottentota,  
 hugonis, humilis, hyalinata, idessa,  
 ignavus, illingworthi, importuna,  
 impuncta, inanis, incerta, inconstans,  
 incurvata, indica, inferior, ingredior,  
 insignis, intermedia, interpuncta,  
 interrupta, interruptella, intrahens,  
 irritans, irwinrossi, jacobsoni,  
 kasauliensis, kihuris, kweilinensis,  
 laeta, lardaria, larvipara, lasiopa,  
 lasiophthalma, lateralis, latifrons,  
 latiparaffrons, lauta, leucomelas,  
 levidus, liberia, lindneri, lineata,  
 litorea, longipes, lothari, lucens,  
 lucidula, lucorum, ludifacies,  
 ludifica, lusoria, luteipennis,  
 maculata, malaisei, mallochi, mano,  
 mantes, mantos, marginalis, maronea,  
 marsya, mazaca, mediana,  
 mediatunda, mediatunda,  
 meditata, meridiana, meruensis,  
 mesopotamiensis, meteorica, minima,  
 minor, minuta, modesta, mollicula,  
 multispina, munroi, mutata,  
 mystacea, nana, nancauriensis,  
 natalensis, nebulo, negriabdomina,  
 nemorum, nevilli, nigricans,  
 nigricolor, nigricruris, nigrita,  
 nigrithorax, nitida, niveisquamata,  
 nora, notata, nugater, nugator,  
 obscura, obtrusa, obtusipennis,  
 occidentis, oceanica, ochricornis,  
 optata, ornata, osiris, ovipara,  
 pabulorum, pagana, pallida,  
 pampasiana, parviceps, pascuorum,  
 patersoni, pattoni, pedella, pellucens,  
 prefixa, phara, phasiaeformis,  
 pilifacies, pilosa, planiceps, polita,  
 pollinosa, praecox, praedicens,  
 prashadii, pratorum, primitiva,  
 princeps, prisca, prodeo, proerna,  
 proferens, prolapsa, prolapsor,  
 promisca, prostrata, pseudocorvina,  
 puella, pulla, pumila, pungens,  
 pungoana, pusilla, quadrimaculata,  
 quadrimaculella, quadrum, racilia,  
 rapax, rau, redeo, refixa, restituito,  
 restituo, reversio, revolo, riparia,  
 rivularis, rufifrons, rufiventris,  
 ruralis, rustica, sanctae-helenae,  
 santoshi, sarsina, scapularis,  
 scatophaga, scutellaris, senegalensis,  
 senilis, seniorwhitei, seplasia, serena,  
 setigera, setulosa, sexmaculata,  
 shanghaiensis, signata, somalorum,  
 sorbens, sordidissima, soror,  
 spangleri, spectanda, speculifera,  
 sperata, spinipes, spinohumera,  
 spinosa, splendens, splendida,  
 squamata, stabulans, stimulans,  
 stipata, stomoxidea, striatacta,  
 stuckenbergi, sublatus, subpuncta,  
 subventus, sugillatrix, tahitiensis,  
 taitensis, tau, tempestatum,  
 tempestiva, tentaculata, terraereginae,  
 testacea, teste, tiberina, tibetana,  
 tibialis, tibiseta, tigrina,  
 transvaalensis, triangula, triquetra,  
 trita, tuguriorum, ugandae, uliginosa,  
 umbraculata, unisetula, vaccarum,

- vaccina, vagans, vagatoria, validus,  
 variabilis, ventrosa, verna, versicolor,  
 vespertina, vetustissima, vicanus,  
 vicaria, vicina, vilis, villeneuvii,  
 violacea, virescens, vitripennis,  
 vivipara, vulpina, wittweri,  
 xanthomela, xanthomelas, yerburyi.
- Muscina:** assimilis, borealis, caesia,  
 cinerascens, levidus, pabulorum,  
 pascuorum, prodeo, prolapsa,  
 prolapsor, stabulans, tibialis.
- mutabilis:** variabilis.  
**mutatus:** mutata.
- Myathropa:** atropos, florea.
- Mydaea:** corni, pagana, princeps, rustica.
- Mydas:** clavata, filata.
- Mydidae:** clavata, filata.
- Myennis:** octopunctata.
- Myiophaea:** aricioides.
- Myiopharus:** costalis.
- Myoleja:** caesio, lychnidis.
- Myolepta:** luteola, potens.
- Myopina:** myopina.
- Myospila:** aluta, incurvata, meditabunda,  
 meditalnenda, nora.
- mystacea:** apiaria, bombinatrix,  
 bombylina, bombylius, bombyloides,  
 discolor.
- nana:** minima.
- natans:** melancholica.
- nebulosa:** ornate.
- Nemopoda:** cylindrica.
- Nemotelus:** albipes, marginata,  
 marginella, pantherina, uliginosa.
- Neoascia:** annexa, bifasciata, dizonias,  
 meticulosa, molio, podagrica, tenur.
- Neomyia:** amoena, benedicta, braesia,  
 caesarion, chalybea, chloris,  
 coerulata, coerulea, connexa,  
 cornicena, cornicina, cyanea,  
 diffidens, donysa, electa, gavisia,  
 guineensis, heraea, indica, ingredior,  
 intrahens, lauta, maronea, mazaca,  
 obtrusa, optata, perfixa, phara, polita,  
 proerna, puella, racilia, redeo, refixa,  
 sarsina, sperata, trita.
- Neria:** ephippium.
- Neta:** chilensis.
- Neurigona:** quadrifasciata.
- niger:** nigra, rugosa.
- nigricans:** albicincta.
- nigricosta:** nitida.
- nigrifrons:** variabilis.
- nigrina:** lateralis, nigripes.
- nigripes:** pinivora.
- nitidula:** cylindrica.
- nobilitata:** hirta, nobilis.
- nobilitatus:** ciliata, joco, ludicrous,  
 ludicrus, nobilitata.
- noctiluca:** erratica, tristor.
- notata:** nectarea, nectarivora.
- notatus:** notata.
- Notogramma:** stigma.
- novemmaculatus:** novemmaculata,  
 tuberculata.
- nubila?:** cursoria.
- nubipennis:** segmentaria.
- nudibasis:** resinellae.
- Nyctia:** halterata, maura, nigrita.
- obesa:** nebulosa.
- obscurata:** mesembrinoides.
- Ochthera:** manicata, mantis.
- Ocyptamus:** cylindracea, cylindricus.
- Odontomyia:** flavissima, hydroleon,  
 microleon, nigricans.
- Oestridae:** ascarides.
- Ogcodes:** gibbosa.
- Onesia:** germana, hederacea,  
 mesembrinoides, micans, obscurata,  
 ruficornis, sepulcralis.
- Oplodontha:** jejuna, minor, minuta,  
 minutior, pusillus, viridula.
- Opomyza:** florum, germinationis.
- Opomyzidae:** combinata, florum,  
 galpinus, germinationis.
- Opsodexia:** serva.
- Opsozelia:** lateralis.
- Orellia:** falcata, punctata, stictica.
- Ormia:** punctata.
- Ornidia:** obesa.
- Orthoceratium:** lacustris.
- Orygma:** palpator.
- Oscinella:** avenae, frit, hordei, nigra.
- osiris:** fulvithorax, sugillatrix.
- Otites:** formosa, lamed, porca.



- Otitidae: aenea, alceae, annonae,  
 aquatica, costalis, crassipennis,  
 demandata, formosa, frondescentiae,  
 gangraenosa, graminum, hortulana,  
 hyalinata, lamed, myennis,  
 octopunctata, picta, porca, stigma,  
 urticae, vibrans.
- Oxycera: graeca, hypoleon, muscaria,  
 rara, tardigradus, trilineata.
- Oxyna: parietina.
- Oxysarcodexia: auriflua.
- Palloptra: muliebris, pulchella, saltuum,  
 umbellatarum, unicolor.
- Palloptraeidae: minutus, muliebris,  
 pulchella, saltuum, umbellatarum,  
 unicolor.
- Palpada: agrorum, hortorum,  
 surinamensis.
- pandia: unxia.
- pantherinus: albipes, marginata,  
 marginella, pantherina.
- panzeri: conica.
- papua: calliphoroides.
- papuensis: azurea, inducta, inscribens,  
 marginifera, metilia, nitescens, tifata.
- Paragus: cruentata, pusilla, thymastri.
- parallelus: parrallelus.
- Paramenia: macularis.
- Paraprissopoda: gulo.
- Parasarcophaga: ruficornis.
- Paregle: audaculus.
- Parhelophilus: frutetorum, versicolor,  
 versicolorata.
- Paroxyna: cinereus, cinerius.
- pattoni: incerta, spinosa, yerburyi.
- pedissequum: pedissequus.
- Pegomya: auctus, bicolor, conformis,  
 flavipes, fungorum, laticornis, rufina,  
 rufipes, runicis, testacea, transversa.
- Pelidnoptera: nigripennis.
- pellucens: pellita.
- pellucens?: deceptoria.
- peltatus: timeo.
- pendulus: pendula, trilineata, trileniata,  
 trilenva, trilineata.
- penicillata: versicolor.
- perexilis: perexillis.
- Pericallimya: perlata.
- Periscepsia: carbonaria.
- pernix: haemorrhoidalis, striata.
- peronii: braesia, cyanea, mazaca, phara,  
 sarsina.
- personata: apiformis, personatus.
- pertinax: lunula.
- Peteina: erinaceus.
- petiolata: compressa.
- Phaeomyiidae: nigripennis.
- Phaonia: angelicae, erinacea, erratica,  
 extranea, fuscata, laeta, nemorum,  
 nugater, nugator, pallida, rufiventris,  
 scutellaris, sublatus, subventus,  
 testacea, tuguriorum, vagans, validus.
- Phasia: brachyptera, dimidiata, taeniata.
- Pherbellia: punctata.
- Pherbina: coryleti, coryletti, reticulata.
- Phlebotomus: papatasi.
- Phora: aterrima, festinans.
- Phoridae: aterrima, festinans, florea,  
 florescens, subsultans.
- Phormia: accincta, bicolor, mollis,  
 proxima, regina, thalassina.
- Phumosia: dioclea, promittens.
- Phyllomya: volvulus.
- Phyllomyia: cylindrica.
- Physiphora: aenea, alceae, demandata.
- Phytomia: crassa, errans, sinensis,  
 zonalis, zonatus.
- picea: piniperdae.
- Pierretia: sexpunctata.
- pilifacies: hoi.
- pilosus: hystrix, pilosa.
- pinastris: consisto, pyrorum.
- pinguis: cincta.
- Piophila: atrata, casei.
- Piophilidae: atrata, casei, cynophila,  
 furcata.
- Piophilidae?: ornithovora.
- pipiens: pipines.
- Pipiza: dirae, erratica, lugubris, moesta,  
 noctiluca, tristor.
- Pipizella: viduata.
- Pipunculidae: cephalotes.
- Pipunculus: cephalotes.
- planiceps: chui, cingalaisina, indica,  
 pollinosa.
- Platycephala: planifrons, umbraculata.

- Platycheirus: agilitas, albimana,  
 confusus, cyanea, dexter, granditarsa,  
 navus, ocymi, rosarum, timeo, vivax.
- Platypalpus: cursitans.
- Platyparea: discoidea, poeciloptera.
- Platypeza: palmipes, properans.
- Platypezidae: palmipes, properans.
- Platystoma: fulviventris, seminationis,  
 variolosa.
- Platystomatidae: fulviventris, lugens,  
 moerens, naevosus, seminationis,  
 singensiae, syngensiae, variolosa.
- Platytropesa: opulenta.
- plebeja: fasciata.
- plumicornis: lineata.
- plumipes: gibba.
- pluvialis: litus.
- Pocota: apiformis, personatus.
- podagrica: molio.
- Poecilanthrax: lucifer.
- Poecilobothrus: ciliata, joco, ludicrous,  
 ludicrus, nobilitata.
- Poecilometopa: spilogaster.
- Polietes: albolineata, domitor, lardaria.
- polita: caesia, parvulus, vitreus.
- Pollenia: amentaria, atramentaria,  
 bicolor, caerulescens, cinerea,  
 degener, depressa, familiaris,  
 flavicans, floralis, fulvicornis,  
 fulvipalpis, intermedia, lanio,  
 leucoptera, macellaria, nana, nigrina,  
 nitens, obscura, olivacea, pruinosa,  
 pumila, recta, recurro, remigro, rudis,  
 ruficeps, ruficornis, rufipalpis,  
 umbrifera, vagabunda, varensis,  
 varia, varians, virescens.
- Polleniopsis: inconclusa, patiens,  
 sarcophagoides.
- pomeroyi: fasciata.
- postica: heraclei.
- posticus: elongata.
- praeceps: cincta, rutilus.
- profuges: conopsea, profugus.
- prolapsa: caesia, pabulorum, prolapsor.
- Protocalliphora: azurea, carnarida,  
 chryssorrhoea, pervenio, reviso,  
 sordida, violacea.
- Protophormia: boganidae, groenlandica,  
 orior.
- Psarus: abdominalis, coalescens.
- Pseudogametes: semiatra.
- Psila: fimetaria, flava, rufa.
- Psilidae: aristata, extenuata, fimetaria,  
 flava, histrionica, ichneumonea,  
 leptogaster, longerro, longervo,  
 luteus, percussus, rosae, rufa, vagus.
- Psilidae?: rufa.
- Psychodidae: papatasi.
- Ptecticus: elongata, japonica, testaceus.
- pubera: puber.
- pubescens: ruficornis.
- pubicornis: dolens, puberula.
- pulchra: phellia.
- pulchripes: flavipes.
- pumilionis: lineata, nasuta, saltatrix,  
 umbelliferarum.
- punctatus: bilineata.
- punctella: cinereus, cinerius.
- punctulata: hieracii.
- punctum: stigma.
- purmundus: purmundus.
- putris: consencis, cossenico, fimeti.
- Pycnomalla: splendens.
- pyrastris: mellina, rosae.
- Pyrellia: aenea, coeo, extrema,  
 fuscipennis, luteipennis, parviceps,  
 proferens, rapax, serena.
- Pyrellina: chrysotelus, distincta, marsya,  
 obscura.
- quadrimaculata: fulvimaculata, sacra,  
 violacea.
- quadrum: subpuncta.
- quinquelineatus: quinquelineata.
- quinquestriatus: quinquestriata.
- radicum: napobrassicae.
- rapax: aenea, coeo, fuscipennis,  
 luteipennis, parviceps, serena.
- rara: tardigradus.
- Ravinia: haemorrhoidalis, moneta,  
 pernix, striata.
- regina: accincta, bicolor, mollis,  
 proxima, thalassina.
- Rhagio: annulata, lineola, maculata,  
 scolopacea, tringaria, vanella.

- Rhagionidae: annulata, asiliformis, cingulata, cristata, fasciatus, lineola, maculata, norwegica, scolopacea, tomentosa, tringaria, vanella.
- Rhagionidae?: acuminata.
- Rhagoletis: cerasi.
- Rhamphinina: pica.
- Rhingia: macrocephala, nasatus, nosatus, rostrata.
- Rhinophora: parvus.
- Rhinophoridae: atra, grossificationis, interventum, parvus, roralis.
- Rhyncomya: collecta, concinna, divisa, felina, impavida, ruficeps.
- ribesii: blandus, vacua.
- Rivellia: singenesiae, syngenesiae.
- rognesi: carnarida, chrysorrhoea, sordida.
- rohrelliformis: inanis.
- roralis: grossificationis, interventum.
- rotundatum: cerinus, hemisphaerica, rotundata.
- rudis: caerulescens, familiaris, floralis, fulvicornis, fulvipalpis, nana, obscura, olivacea, pruinosa, pumila, recta, remigro, rufipalpis, varia.
- rudis?: torvis, torvus.
- rufifacies: orientalis.
- rufiventris: nugater, nugator, scutellaris, testacea.
- rufomaculata: demano, dimano, lateralis.
- rustica: plebeja, provenio.
- rustica?: germanica.
- rutilans: valida.
- Rutilia: formosa, liris, regalis, retusa, splendida.
- saltatrix: clavicus, minuta, pigra.
- Saltella: spondylii.
- saltuum: unicolor.
- Sapromyza: caeruleophthalmica, quadripunctata.
- Sarconesia: incerta.
- Sarcophaga: carnaria, colossus, prolabor, revento, serpo, valens, variegata, vivipara major.
- Sarcophagidae: affinis, africa, auriflua, carnaria, cinerea, colossus, frontalis, gulo, haemorrhoea, haemorrhoidalis, halterata, hauriens, labiata, latifrons, leucocephala, lineata, martia, maura, moneta, nigrita, obsoleta, occidua, pernix, prolabor, pusilla, revento, ruficornis, rufifrons, ruralis, serpo, sexpunctata, spilogaster, striata, tabaniformis, taenionota, tessellata, valens, variegata, vivipara major.
- Sarcophila: latifrons, obsoleta.
- Sargus: bipunctata, caerulescens, capraria, cupraria, indicus, iridata, violacea.
- Scaeva: mellina, pyrastris, rosae.
- scalaris: alevo, allevo, minor domestica.
- Scathophaga: comito, exilis, lucophaeus, lucopheus, lutaria, merdaria, scybalaria, stercoraria, suilla.
- Scathophagidae: abbreviata, cloacaris, comito, exilis, livens, lucophaeus, lucopheus, lutaria, merdaria, paganus, puber, pubera, scybalaria, stercoraria, suilla, tipularia.
- Scatopse: nectarea, nectarivora.
- Scatopsidae: nectarea, nectarivora.
- Scellus: notata.
- Scenopinidae: albicincta, fenestralis, nigra, rugosa, saltitans, senilis, spoliata, tarda.
- Scenopinus: albicincta, fenestralis, nigra, rugosa, saltitans, senilis, spoliata, tarda.
- schoenherri: punctata.
- Sciapus: ingruo, ingrus.
- Sciaridae: maura, morio.
- Sciomyzidae: alata, albiseta, aratoria, chaerophylli, cincta, coryleti, coryletti, cribrata, crocus, cucularia, delicate, dorsalis, elata, elater, flavifrons, flavipes, fumigata, hieracii, limbata, marginata, oratoria, punctata, punctulata, reticulata, rufa, rufifrons, rufipes, sollicitus, spegea, spinipes, tener, tenur, tristis, umbrarum, unguicornis, varicus, variegata, varicus.
- scita: scitus.
- scolopaceus: scolopacea.
- Scotipectera: venatoria.
- scripta: invisito, molitus.

- Scutellomusca: scutellaris.  
 scybalaria: lucophaeus, lucopheus.  
 seelandicus: seelandica, trilineatus.  
 segnis: contracta, fucatus, maritima,  
     melanochrysa.  
 Seioptera: urticae, vibrans.  
 semicinereus: hyalinata.  
 semiluctifera: naevia.  
 seminationis: fulviventris, variolosa.  
 senegalensis: luteola.  
 seniorwhitei: tibiseta.  
 Senogaster: dentipes.  
 Sepedon: flavipes, rufipes, spegea,  
     spinipes.  
 Sepsidae: consencis, cossenico,  
     cylindrica, cynipsea, elongata, fimeti,  
     minimus, palpator, punctum, putris,  
     spondylii, stigma, vibrans.  
 Sepsis: cynipsea, elongata, punctum,  
     stigma, vibrans.  
 sepulchralis: ater, melanius.  
 seriata: rufifrons.  
 sericata: caerulescens, lagyra, nobilis,  
     teglularia.  
 sericea: buccata.  
 Sericomymia: lappona, silentis,  
     subtomentosa.  
 serrata: latrinarum.  
 serratulae: serratula.  
 Servillia: argyrostoma, hirsuta, lurida.  
 setipyga?: collecta.  
 setiventris: cornuta.  
 sexmaculata: deduco, uliginosa.  
 Silbomyia: fuscipennis, prospera.  
 silentis: subtomentosa.  
 silvatica: cinerea.  
 Simuliidae: colombaschensis.  
 Simulium: colombaschensis.  
 singularior: singularius.  
 Siphona: geniculata, urbanus.  
 solennis: rumicis.  
 sollicita: rufa, sollicitus.  
 solivaga: solivagus.  
 solstitialis: arctii, dauci.  
 sonchi: subcutanea.  
 sorbens: alba, bivittata, dichotoma,  
     efflatouni, eutaeniata, exalbida,  
     humilis, mediana, niveisquama,  
     primitiva, promisca, pusilla,  
     spectanda, stuckenbergi.  
 sperata: electa.  
 Sphaeroceridae: saniosa.  
 Sphaerophoria: invisito, menthastri,  
     molitus, scripta.  
 spegeus: flavipes, rufipes, spegea.  
 sphingivora: crassiseta.  
 sphondylii: spondylii.  
 Spilogona: aerea, dispar, litorea,  
     marginalis.  
 Spilomyia: diophthalma.  
 spilopectera: grisea.  
 spissa: aricioides.  
 splendens: splendida.  
 stabulans: cinerascens, prodeo, tibialis.  
 Stegana: coleoprata, furta.  
 steini: fungorum.  
 stercoraria: exilis, merdaria.  
 Sterphus: jamaicensis, nigrana, nigrita.  
 stictica: punctata.  
 stigma?: placida.  
 Stülbomyella: costalis, diffusa, gloriosa.  
 Stomina: tachinoides.  
 Stomorhina: discolor, lunata.  
 Stomoxys: calcitrans, occidentis,  
     pungens.  
 Stratiomyidae: aequinoctialis, albipes,  
     aurata, bipunctata, caerulescens,  
     caesia, capraria, chalybata, chalybea,  
     chalybeata, chamaeleon, cicur,  
     clavipes, coccinea, cupraria, elongata,  
     ephippium, flavissima, formosa,  
     graeca, hydroleon, hypoleon,  
     illucens, inda, indicus, iridata,  
     japonica, jejuna, leucopa, marginata,  
     marginella, melanopsis, microleon,  
     minor, minuta, minutior, muscaria,  
     mutabilis, nigricans, pallipes,  
     pantherina, parvulus, polita, pusillus,  
     quadrilineata, rara, rex, sellata,  
     sexdentata, similis, singularius,  
     spatula, splendens, strigata,  
     tardigradus, tenebricus, testaceus,  
     trilineata, uliginosa, vallata,  
     variabilis, villosa, violacea, viridula,  
     vitreus.



- Stratiomys: chamaeleon, pallipes,  
     singularius, spatula, strigata,  
     tenebricus.  
 striatus: lineata, striata.  
 strigatus: lineata.  
 Strongygaster: lingens.  
 stygia: laemica.  
 stylata: iacobeae, jacobaeae.  
 Subhylemyia: longula, parvula.  
 subventa: subventus.  
 Suillia: tuberis.  
 superbiens: fulvus, mussitans.  
 sylvana: sylvanus.  
 sylvarum: longisco.  
 Sylvicola: bilineata, cinctus, fuscata,  
     nigricans, punctatus, succincta.  
 syngenesiae: singenesiae.  
 Syntormon: pallipes.  
 Syritta: pipiens, pipines.  
 Syrphidae: abdominalis, ablectus,  
     adunata, aenea, agilitas, agrorum,  
     albimana, alternata, americana,  
     annexa, annulatus, anteambulo,  
     anteambulo, aphidivora, apiformis,  
     apivora, arbustorum, arcuata,  
     arurum, arvorum, asiliformis, ater,  
     atropos, balteata, bardus, bicincta,  
     bicinctata, bifasciata, bipunctata,  
     blandus, bombylans, bombyliformis,  
     brunnea, caemeteriorum, calcarata,  
     callosus, cannabina, cautus,  
     cemiteriorum, chrysorrhoea,  
     chrysozonias, cincta, cinctus,  
     cingulatus, citroefasciata,  
     citroefasciata, clauda, clauipes,  
     coalescens, comtus, confusus, conica,  
     conopsea, conopsoides, consisto,  
     contracta, corollae, corydon, corydon,  
     crabroniformis, crassa, crassipes,  
     cruentata, cryptarum, curvipes,  
     cyanea, cylindracea, cylindricus,  
     dentipes, depressa, devia, dexter,  
     diophthalma, dirae, dispar, dizonias,  
     elegans, elephantopus, eligans,  
     elongata, ericetorum, errans, erratica,  
     esuriens, exinanita, facultas, fallax,  
     fasciata, fasciolata, femorata, festiva,  
     flavescens, flavicornis, florea,  
     formosus, frutetorum, fucatus,  
     fuciformis, fulva, fulvus, funebres,  
     funebri, funesta, funibres, fuscus,  
     fusiformis, glaucia, granditarsa,  
     hirsutissima, horticola, hortorum,  
     hortulana, illustratus, imbellis,  
     inaequalis, inanis, inflata,  
     interpunctus, interrupta, interruptus,  
     intersecta, intricaria, intricata,  
     invisito, jamaicensis, laeta, lappona,  
     laternaria, leneatus, leucocephala,  
     libatrix, lineata, lineatus, lineolae,  
     lineolata, longipes, longisco, lucida,  
     lucorum, lugubris, lunata, lunula,  
     luteola, lyra, macrocephala,  
     macrophthalma, maritima,  
     melancholica, melanius,  
     melanochrysa, melanopyrrha,  
     mellina, menthastri, merulina,  
     metallina, meticulosa, micans,  
     moesta, molio, molitus, monoculus,  
     murina, murorum, mussitans,  
     mutabilis, naevia, nasatus, natans,  
     navus, nectareus, nectarina,  
     nemorum, nigra, nigrana, nigrita,  
     nitens, noctiluca, nosatus, nova,  
     obesa, obfusca, ochroleuca, ocymi,  
     oestracea, pacifica, palustris,  
     paralleli, parallelus, parralleli,  
     parrallelus, parrelleli, pedissequus,  
     pellucens, pendula, perexilis,  
     perexillis, personatus, pigra, pinastri,  
     pinzuis, pipiens, pipines, plumata,  
     plumosa, podagrica, politus, porcina,  
     potens, prasina, pratorum, profuges,  
     profugus, pulla, punctata, pusilla,  
     pyrastris, pyrorum, quadrilineatus,  
     quinquelineata, quinquestriata,  
     ribesii, rosae, rosarum, rostrata,  
     rubiginea, rubiginosa, ruficaudis,  
     ruficornis, rutilo, salviae, scitule,  
     scitulus, scitus, scripta, seelandica,  
     segetum, segnis, semiluctifera,  
     semirufa, semulater, semulator,  
     sepulchralis, silentis, simulator,  
     sinensis, speculifera, subtomentosa,  
     surinamensis, sylvarum, tarditas,  
     tartidus, tenax, tenur, tetragona,

- thymastri, timeo, tranquebarica,  
 transfuga, trelineata, trifasciata,  
 trileniata, trilenva, trilineata,  
 trilineatus, tristis, tristor, univalvis,  
 vacua, valentina, valga, versicolor,  
 versicolorata, vesiculosa,  
 vespasimilis, vespiformis, viduata,  
 virginiensis, viridescens, vivax,  
 vorax, zonalis, zonaria, zonatus.
- Syrphus: blandus, ribesii, vacua.
- Tabanidae: pellita.
- Tachina: erucarum, fera, grossa,  
 neustriae, reccumbo, rerumbo,  
 tessella, tessellata.
- Tachinidae: acromion, affinis, agilis,  
 albifrons, aldrichi, altratus, anceps,  
 angusticornis, argyrostoma, aterrima,  
 atratus, atrifrons, aurifrons, ausus,  
 bifasciata, bohémica, brachyptera,  
 brassicaria, brevis, canina, canus,  
 capitata, carbonaria, carinifrons,  
 cerasina, cerinus, chrysostoma,  
 cincta, cingulata, compressa, confluo,  
 conspersus, continua, convenio,  
 convolo, costalis, costata, crassa,  
 crassicornis, crassipennis, crassisetia,  
 cylindrica, deceptoria, demano,  
 diaphana, dilecta, dimano, dimidiata,  
 erinaceus, erucarum, esuriens,  
 evonymellae, fasciata, fera, ferina,  
 flaviceps, formosa, gastrodes,  
 geniculata, germanica, globosa,  
 grisescens, grossa, hartigii, helluo,  
 hemiptera, hemisphaerica, hirsuta,  
 hirta, hystrix, iliaca, interpunctionis,  
 interventus, investigator, larvarum,  
 larvincola, lateralis, leucozona,  
 libatrix, lingens, liris, longipes,  
 lucozona, lupina, lurida, major  
 larvarum, marmorata, metallina,  
 metus, minor larvarum, mirabilis,  
 moesta, monachae, nebulosa,  
 neustriae, nigricornis, nigrina,  
 nigripes, obsidianus, ochracea,  
 parasitica, pavidia, pennipes, petiolata,  
 phalaenarum, pica, pilosa, pinguis,  
 piniperdae, pinivorae, plebeja,  
 praiceps, procedo, processioneae,  
 promano, promans, provenio,  
 pubiceps, punctata, puparum,  
 quadripustulata, reccumbo, recedans,  
 redambulo, redeans, redians, regalis,  
 repens, rerumbo, resinellae, retusa,  
 rotundata, ruficrus, rufiventris,  
 rufomaculata, rustica, rutilans,  
 rutilus, sensifera, sericea, sinuata,  
 solivagus, splendida, subcoleoprata,  
 tachinoides, taeniata, temula, tessella,  
 tessellata, torvis, torvus, tremula,  
 tricincta, tristis, urbanus, vacua,  
 valida, varia, venatoria, villica,  
 volets, volvulus.
- Tachinidae?: nigripes, rustica.
- Tachydromia: arrogans.
- Tachypeza: cursoria.
- Taeniptera: annulata, lasciuia.
- taeniatum: gibba.
- tasmaniae: extrema.
- Temnostoma: vespasimilis, vespiformis.
- tempestiva: albipennis, carnifex, cuprea,  
 curvinervis, minima, nana,  
 phasiaeformis, pusilla, stimulans,  
 unisetula, violacea.
- temula: obsidianus, tremula.
- tenax: apiformis, porcina.
- Tephritidae: amica, arctii, arcuata,  
 amicae, artemisiae, caesio, cardui,  
 centaureae, cerasi, cinerea, cinereus,  
 cinerius, connexa, comuta, coryli,  
 crax, crux, dauci, discoidea,  
 erythrocephala, falcata, ferruginea,  
 flauescens, florescentiae, fucata,  
 furcata, haemorrhoidalis, helianthi,  
 heraclei, heraclii, hyoscyami,  
 iacobeae, jacobaeae, lappae,  
 leontodontis, limatus, lincensis,  
 linzensis, longicornis, lychnidis,  
 miliaria, oleae, onopordinis, parietina,  
 perelegand, perelegans, permundus,  
 placida, poeciloptera, punctata,  
 purmundus, radiata, ruficauda,  
 scabiosae, serratula, serratulae,  
 solstitialis, sonchi, stellata, stictica,  
 stylata, subcutanea, tussilaginis,  
 vecors, vinulus, viridescens, vittata.

- Tephritis: arnicae, cinerea, heraclei,  
 hyoscyami, leontodontis.  
 Terellia: cornuta, lappae, ruficauda,  
 serratula, serratulae, tussilaginis.  
 terraenovae: groenlandica, orior.  
 terraereginae: hilli.  
 tessariae: fucata, furcata.  
 tessella: tessellata.  
 testaceus: elongata.  
 Tetanocera: alata, elata, elater.  
 Thelaira: lateralis, leucozona, lucozona,  
 nigrina, nigripes, solivagus.  
 Themira: consensens, cossenico, fimeti,  
 putris.  
 Theresia: valida.  
 Thereva: fasciata, hirta, lugubris, nobilis,  
 nobilitata, plebeja.  
 Therevidae: anilis, ardea, bilineata,  
 fasciata, flavipes, hirta, lugubris,  
 nobilis, nobilitata, ochropus, plebeja.  
 Thoracites: abdominalis.  
 Thricops: atra, diaphana, hyalinata,  
 variabilis.  
 Thyreophora: cynophila.  
 Thyridanthrax: nigrita.  
 Thyrsochnema: striata.  
 tigrina: notata, rapax.  
 timorensis: benedicta, intrahens, obtrusa.  
 toliana: fabricii, fasciata.  
 Toxomerus: dispar.  
 Trachydromia: cimicoides, cimicoides.  
 transfugus: transfuga.  
 Tricharaea: occidua.  
 Trichodura: anceps.  
 Trichopoda: pennipes.  
 trilineata: graeca, hypoleon.  
 tringaria: vanella.  
 tringarius: tringaria.  
 Trixa: conspersus.  
 Tromodesiopsis: atrifrons.  
 Tropidia: scitus.  
 Trupanea: radiata, stellata.  
 Trypeta: artemisiae, florescentiae,  
 perelegand, perelegans.  
 Trypetoptera: hieracii, punctulata.  
 tuguriorum: extranea.  
 uliginosus: uliginosa.  
 unguicornis: flavifrons, varicus, varieus.  
 ungulata: squamata, squamifera.  
 ungulatus: ungulata.  
 UNKNOWN: abrupta, adiaphora,  
 adpersus, aestiva, aestivationis,  
 aestuans, agilis, albomicans, allii,  
 alterabilis, ambulans, annulata,  
 aphidioides, argentata, argentea,  
 aselliformis, atra, aurata, bibosa,  
 bicolor, bilineata, bimaculata,  
 brunnea, buccata, buphthalmi, capito,  
 characteristic, carinata, castanea,  
 caudata, cerasi, chrysocephala,  
 chrysostoma, cineraria, cinerascens,  
 cinerea, cingulata, clandestina,  
 clauata, clavicornis, claviformis,  
 claviventris, concinna, conferta,  
 conica, contigua, costata, crassipes,  
 cruciata, cuprea, cyanophthalma,  
 cylindrica, depressa, despecta,  
 divaricata, doclea, doliata, duplicata,  
 elongata, erratica, erythrocephala,  
 fallax, familiaris, fervida, fimetorum,  
 flauicans, flavescens, flavicans,  
 flavipes, fulvipes, fungorum, fusca,  
 fuscipes, galata, geographica, gibba,  
 gibbosa, gigantea, glaucoptera,  
 grisea, guttata, helenii, helvola,  
 hemipterus, hirticollis, hortensis,  
 hydrophila, hydropica,  
 ichneumonoides, larvata, lateritia,  
 latipes, latro, leprac, leuconyx,  
 leucophaeus, leucopis, leucoptera,  
 leucosticta, libatrix, liturata, longipes,  
 luctuosa, lutea, macrocephala,  
 mactans, maculata, maculatus,  
 marginalis, marginella, marmorata,  
 melanochrysa, melanura, mesoleuca,  
 minimus, minutissima, muraria,  
 nigra, nigripilis, nivalis, nobilis,  
 notata, novemmaculata,  
 novempunctata, ochroptera,  
 orbiculata, pallida, pennipes,  
 personata, pertinax, picata, picea,  
 piceae, plumbea, plumbea,  
 potentillae, praedo, praecusta,  
 prodromaria, psyllia, pulicaria,  
 pullata, punctata, punctifera, putrida,  
 putris, quadrata, quadricolor,

- quadrifasciata, quadrilineata,  
 quadrimaculata, quinquefasciata,  
 quinquepunctata, resinosa, reticulata,  
 rubripes, rufa, ruficapilla, rufipes,  
 rufiventris, sacalis, scolopacina,  
 secalis, segmentaria, semiflava,  
 sericea, setaria, seticornis, setosa,  
 smaragdina, solstitialis, sordida,  
 spinifera, squalida, stellata, strigosa,  
 stuans, subcutanea, subulata, succica,  
 syrphus, teres, terrestris, tessellata,  
 tibialis, tipulaea, tipuliformis,  
 topiaria, tricolor, tridens,  
 trigrammica, trimaculata, trinervis,  
 tripunctata, tristis, truncata,  
 tuberculata, turcica, varia, velox,  
 venosa, versicolor, versipellis,  
 vinculata, violacea, virens, viridana,  
 vitrata, vivipara.  
 urbana: rustica.  
 Urophora: arctii, cardui, dauci, iacobea,  
     jacobea, placida, solstitialis, stylata.  
 ursina?: argyrostoma.  
 vagabunda: varians.  
 vagans: strigosa, volito.  
 valgus: valga.  
 valida: validus.  
 ventrosa: kasauliensis, nigrithorax,  
     pungoana, xanthomela.  
 Vermileo: vermileo.  
 Vermileonidae: vermileo.  
 versicolor: hartigii, versicolorata.  
 vertiginosa: marmorata.  
 vesiculosum: vesiculosa.  
 vespertina: nigrita.  
 vespiformis: vespaesimilis.  
 vespillo: ruficornis, virescens.  
 vetustissima: angustifrons, fieldi,  
     latifrons, nigricruris, prisca, pumila.  
 viarum: pusilla.  
 viatica: fulvicornis.  
 vibrans: urticae.  
 vicana: decolor, mantes, mantos, vicanus.  
 vicina: aucta, carnivora, erythrocephala,  
     scutellata, spitzbergensis, thuscia.  
 Vidalia: cornuta.  
 Villa: troglodyta.  
 vinetorum: surinamensis.  
 violacea: infixa.  
 viredaurea: munda, reflectens, viridaurea.  
 viridicyanea: anthracina.  
 viridula: jejuna.  
 Volucella: annulatus, apivora,  
     bombylans, hirsutissima, inanis,  
     inflata, melanopyrrha, micans,  
     pellucens, plumata, plumosa,  
     trifasciata, valentina, zonaria.  
 volvulus: cylindrica.  
 vomitoria: affinis, carnaria, coerulea,  
     minimus, obscoena.  
 vulgaris: agilis.  
 vulpina?: investigator.  
 Winthemia: pinguis, quadripustulata.  
 Xanthandrus: comtus.  
 Xanthogramma: anteambulo,  
     anteambulo, citreofasciata,  
     citrofasciata, festiva, laeta,  
     pedissequus, vespiformis.  
 xanthomelaena: albomaculata,  
     dorsomaculata, irwinrossi, lothari,  
     rufiventris, setigera, xanthomelas.  
 Xenocalliphora: hortona, icela.  
 Xylophagidae: australis, cincta, crucis,  
     ferruginea, grandis, olens, testacea.  
 Xylophagus: cincta.  
 Xylota: contracta, fucatus, longisco,  
     maritima, melanochrysa, pigra,  
     segnis, semulater, simulator,  
     simulator, sylvarum.  
 Xyphosia: arcuata, miliaria.  
 Zaphne: ambigua.  
 Zenillia: libatrix, ochracea.  
 zoe: perelegand, perelegans.  
 zonaria: valentina.  
 zonata: rufipes, sinensis, zonalis,  
     zonatus.



## Summary of nomenclatural changes

Names are arranged by family and alphabetically by genus and species within family. Lectotype entries and junior synonyms are listed under the original combination of the species group name, others are under the present combination.

### New names

**Calliphoridae:** *Protocalliphora rognesi* Thompson & Pont = *chrysoorrhoea* Meigen 1826, not Scopoli 1763; **Muscidae:** *Musca mallochi* Thompson & Pont = *squamata* Malloch 1934, not Müller 1764; **Psilidae:** *Chamaepsila hennigi* Thompson & Pont = *rosae* Fabricius 1794, not DeGeer 1776; **Sarcophagidae:** *Anapunophyto lopesi* Thompson & Pont = *pusilla* Macquart 1848, not Gmelin 1790.

### New lectotype designations

**Calliphoridae:** *Musca laemica* Walker; **Syrphidae:** *Musca pinastri* De Geer, *Musca pyrorum* Schrank.

### Changes in taxonomic status (New synonymy)

**Anisopodidae:** *Musca nigricans* de Villers = *Sylvicola fuscatus* (Fabricius); **Bombyliidae:** *Musca hirsuta* de Villers = *Hemipenthes maurus* (Linnaeus); **Calliphoridae:** *Musca laemica* Walker = *Calliphora stygia* (Fabricius), *Musca melanoptera* Fallén = *Morinia doronici* (Scopoli), *Musca bicolor* Walker = *Phormia regina* Meigen, *Musca sordida* Zetterstedt = *Protocalliphora rognesi* Thompson & Pont, *Musca felix* Walker = *Chrysomya albiceps* (Wiedemann), *Musca virens* Wiedemann = *Cosmina limbipennis* (Macquart), *Musca quadrilineata* Fabricius = *Eumesebrinella flavipennis* (Macquart), *Musca segmentaria* Fabricius = *Hemilucilia nubipennis* (Rondani), *Musca gentilis* Meigen = *Melinda gentilis* (Robineau-Desvoidy); **Chloropidae:** *Musca nigra* Linnaeus = *Oscinella frit* (Linnaeus), *Musca pigra* Geoffroy = *Meromyza saltatrix* Linnaeus, *Musca pumilionis* Banks = *Chlorops pumilionis* (Bjerkander), *Musca saltatrix* Geoffroy = *Chlorops pumilionis* (Bjerkander); **Curtonotidae:** *Musca gibba* Fabricius = *Curtonotum taeniatum* Hendel; **Dolichopodidae:** *Musca squamata* Müller = *Dolichopus unguatus* (Linnaeus), *Musca ciliata* Müller = *Poecilobothrus nobilitatus* (Linnaeus), *Musca nigripes* Fabricius = *Chrysotus laesus* (Wiedemann); **Keroplastidae:** *Tipula lineata* Fabricius = *Cerotelion striatus* (Gmelin); **Micropezidae:** *Hoplocheiloma fabricii* Steyskal = *Hoplocheiloma totliana* (Gmelin); **Otitidae:** *Musca hortulana* Rossi = *Ceroxys hyalinata* (Panzer), *Musca graminum* Fabricius 1794 = *Dorycera aquatica* (Geoffroy), *Musca aenea* Fabricius = *Physiphora clausa* (Macquart); **Phoridae:** *Bibio*

*florea* Fabricius = *Diplonevra florescens* (Turton); **Sarcophagidae**: *Musca cinerea* Fabricius = *Leucomyia alba* (Schiner); **Sciomyzidae**: *Musca cribrata* de Villers = *Coremacera marginata* (Fabricius); **Sepsidae**: *Musca spondylii* Schrank 1837 = *Saltella sphondylii* (Schrank 1803); **Stratiomyidae**: *Musca sellata* Fuesslin = *Clitellaria ephippium* (Fabricius), *Musca elongata* Fabricius = *Ptecticus posticus* (Wiedemann); **Syrphidae**: *Musca apiformis* Geoffroy = *Eristalis tenax* (Linnaeus), *Musca balteata* De Geer = *Episyrphus cannabina* (Scopoli), *Musca bipunctata* Müller = *Chrysotoxum arcuatum* (Linnaeus), *Musca bombylifformis* Geoffroy = *Merodon equestris* (Fabricius), *Musca chrysozonias* Gmelin = *Chrysotoxum fasciatum* (Müller), *Musca consisto* Harris = *Dasysyrphus pinastri* (De Geer), *Musca contracta* Geoffroy = *Xylota segnis* (Linnaeus), *Musca depressa* Swederus = *Leucozona glaucia* (Linnaeus), *Musca elegans* de Villers = *Episyrphus cannabina* (Scopoli), *Musca festiva* Geoffroy = *Chrysotoxum arcuatum* (Linnaeus), *Musca fulva* Gmelin = *Cheilosia illustrata* (Harris), *Musca hirsutissima* de Razoumowsky = *Volucella bombylans* (Linnaeus), *Musca imbellis* Harris = *Chrysotoxum arcuatum* (Linnaeus), *Musca inaequalis* Geoffroy = *Episyrphus cannabina* (Scopoli), *Musca leucocephala* Gmelin = *Eristalinus aeneus* (Scopoli), *Musca lineata* Geoffroy = *Eumerus strigatus* (Fallén), *Musca lineolae* Harris = *Eristalis interrupta* (Poda), *Musca lineolata* Gmelin = *Chrysogaster cemiteriorum* (Linnaeus), *Musca longipes* Thunberg = *Chalcosyrphus femoratus* (Linnaeus), *Musca lunula* de Villers = *Eristalis pertinax* (Scopoli), *Musca luteola* Gmelin = *Myolepta dubia* (Fabricius), *Musca maritima* Scopoli = *Xylota segnis* (Linnaeus), *Musca melanochrysa* Gmelin = *Xylota segnis* (Linnaeus), *Musca naevia* Gmelin = *Milesia semiluctifera* (de Villers), *Musca nectarina* Gmelin = *Episyrphus cannabina* (Scopoli), *Musca pyrorum* Schrank = *Dasysyrphus pinastri* (De Geer), *Musca vespiformis* Geoffroy = *Xanthogramma festiva* (Linnaeus).

#### New and revised combinations

**Bibionidae**: *Biblio bidentatus* (de Villers), *Dilophus novemmaculatus* (de Villers); **Calliphoridae**: *Isomyia selecta* (Walker), *Onesia hederacea* (Geoffroy), *Phumosia dioclea* (Walker), *Pollenia umbrifera* (Walker); **Chloropidae**: *Chlorops pulchella* (Müller), *C. quadristrigata* (Donovan), *C. lepidus* (Harris); **Empididae**: *Hilara globulipes* (Geoffroy); **Heleomyzidae**: *Suillia tuberis* (Vallot); **Keroplastidae**: *Macrocera longicornis* (Fabricius), *M. macroceras* (Gmelin); **Muscidae**: *Morellia nigricosta* Hough; **Otitidae**: *Dorycera aquatica* (Geoffroy); **Stratiomyidae**: *Ptecticus japonica* (Thunberg); **Sarcophagidae**: *Agria affinis* (Fallén); **Syrphidae**: *Cheilosia aenea* Scopoli.

## New status

**Calliphoridae:** *Morinia daronici* (Scopoli); **Curtonotidae:** *Curtonotum taeniatum* Hendel; **Dolichopodidae:** *Chrysotus laesus* (Wiedemann); **Keroplatidae:** *Cerotelion striatus* (Gmelin); **Micropezidae:** *Hoplocheiloma totliana* (Gmelin); **Otitidae:** *Ceroxys hyalinata* (Panzer), *Meliera gangraenosa* (Panzer), *Otites elegans* (Latreille), *Physiphora clausa* (Fabricius); **Phoridae:** *Diplonevra floescens* (Turton); **Sarcophagidae:** *Leucomyia alba* (Schiner); **Stratiomyidae:** *Ptecticus posticus* Wiedemann; **Syrphidae:** *Baccha perexilis* Harris, *Dasysyrphus pinastri* (De Geer), *Epi-syrphus cannabina* (Scopoli), *Eristalis lineatus* (Harris), *Eristalis lyra* (Harris), *Ischiodon nigra* (Forskål), *Psarus coalescens* (Geoffroy); **Tachinidae:** *Tachina tessella* (Turton), *Thelaira nigrina* (Fallén), *Zenillia fulva* (Fallén).

## Overlooked names (names not in recent Diptera catalogs)

**Anisopodidae:** *nigricans* de Villers; **Athericidae:** *atherix* Donovan; **Bibionidae:** *bidentata* de Villers, *ciliata* de Villers, *novemmaculata* de Villers, *tuberculata* de Villers; **Calliphoridae:** *bicolor* Walker, *caerulea* Brullé, *caesarina* Scopoli, *caesarion* Scharfenberg, *chalybaea* Gravenhorst, *dioclea* Walker, *dolens* Zetterstedt, *felix* Walker, *flavicans* Doleschall, *fulvima-culata* Manuel, *ionia* Meigen, *micans* Fabricius, *minus* Harris, *polisma* Walker, *remigro* Harris, *reviso* Harris, *selecta* Walker, *suffusa* Walker, *umbrifera* Walker, *violacea* Fabricius, *virens* Wiedemann, *viridicaerulea* De Geer; **Chamaemyiidae:** *gibbosa* De Geer; **Chloropidae:** *erro* Harris, *nigra* Linnaeus, *pigra* Geoffroy, *pulchella* Müller, *pumilionis* Banks, *saltatrix* Geoffroy; **Coelopidae:** *relictus* Harris, *simulator* Harris; **Dolichopodidae:** *amicula* Harris, *caudex* Harris, *ciliata* Müller, *festiva* Donovan, *gibba* Müller, *hebes* Harris, *ingruo* Harris, *sannio* Harris, *semiargentata* Donovan, *semiargentea* Turton, *squamata* Müller, *squamifera* Müller; **Dryomyzidae:** *mellinus* Harris; **Empididae:** *globulipes* Geoffroy; **Fanniidae:** *minor* Harris; **Heleomyzidae:** *avarus* Harris, *dejectus* Harris, *sandaracha* Harris; **Keroplatidae:** *longicornis* Fabricius, *macroceras* Gmelin; **Lauxaniidae:** *caeruleo-phtharmica* Scopoli, *multus* Harris; **Lonchaeidae:** *vernicina* Scopoli; **Micropezidae:** *ephippium* Walckenaer, *pedo* Harris, *peragro* Harris, *totliana* Gmelin; **Opomyzidae:** *galpinus* Harris; **Otitidae:** *alceae* Preysslér, *aquatica* Geoffroy, *myennis* Coquebert, *porca* Latreille; **Phaeomyiidae:** *nigripennis* Fabricius; **Pallopteridae:** *minutus* Harris; **Phoridae:** *floescens* Turton; **Piophilidae:** *ornithovora* Scopoli; **Pipunculidae:** *cephalotes* Bosc; **Platystomatidae:** *naevosus* Harris, *singenesiae* Manuel, *variolosa* Schrank; **Psilidae:** *histrionica* Fabricius, *longerro* Harris, *luteus* Harris, *percussus* Harris, *rufa* De Geer, *vagus* Harris; **Rhagionidae:** *cingulatus* Donovan, *norwegica* Gmelin; **Sarcophagidae:** *frontalis* Latreille, *haemorrhoea* Gravenhorst, *labiata* Fabricius, *leucocephala* de Villers, *martia* Scopoli, *moneta* Walker, *nigrita* Scopoli, *prolabor* Harris, *pusilla* Macquart, *revertio* Harris,

*sexpunctata* Fabricius, *taenionota* Wiedemann, *valens* Harris; **Scathophagidae**: *abbreviata* Gravenhorst, *exilis* Harris, *lucophaeus* Harris, *paganus* Harris; **Scatopsidae**: *nectarivora* Turton; **Scenopinidae**: *tarda* Linnaeus; **Sciaridae**: *maura* Turton; **Sciomyzidae**: *cribrata* de Villers, *delicate* Harris, *oratoria* Turton, *tener* Harris, *varicus* Harris; **Sepsidae**: *elongata* Müller, *palpator* Harris, *spondylii* Schrank; **Stratiomyidae**: *aequinoctialis* Linnaeus, *japonica* Thunberg, *melanopsis* Gmelin, *minor* Turton, *minutior* Turton, *nigricans* Gmelin, *sellata* Fuesslin; **Syrphidae**: *apiformis* Geoffroy, *bombylifformis* Geoffroy, *chryssorrhoea* Scopoli, *contracta* Geoffroy, *depressa* Swederus, *elegans* de Villers, *fusiformis* Turton, *hirsutissima* de Razumowsky, *hortulana* Scopoli, *inaequalis* Geoffroy, *interrupta* Geoffroy, *intricata* Turton, *lineata* Geoffroy, *longipes* Thunberg, *merulina* Scopoli, *murina* Schrank, *nectarina* Gmelin, *nigra* Forskål, *pulla* Gmelin, *univalvis* Turton, *versicolorata* Turton, *vespaesimilis* Barbut; **Therevidae**: *ochropus* Turton; **Xylophagidae**: *olens* Fuesslin.

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*mens of the insects; and with the descriptions are arranged according to the Linnaean system, with reference to the writings of Fabricius and other entomologists.* Rivington, London. iv + [167] pp. + [41] pls. (after 20 July)

[This work is unpaginated and the plates and figures are unnumbered. It appears that copies of the printing proof were distributed as there are no paginated copies known. The figures are distinguished in each plate and associated legend by a series of diamond-shaped marks in place of figure numbers. The Diptera are described on the 166th and 167th pages and are figured on the 41st plate. The dedication page is dated 20 July and, noting that the work was apparently not finalized with pagination, it is assumed here that the issue date was soon after the 20 July date.]

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[The scientific names are found only in the index.]

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### Emden, F. I. van

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- 1965 Diptera. Vol. 7. Muscidae, part 1. xiv + 647 pp., 2 pls. In Sewell, R.B.S. and M. L. Roonwal (eds.), *The fauna of India and the adjacent countries*. Government of India, Delhi. (June)

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- 1851 Hymenoptera, Diptera and Neuroptera, pp. 60-69. In E. Ménétriés, *Insecten*, pp. 43-76, plate 3. In Middendorf, A. T. von. *Reise in den dussersten Norden und Osten Sibiriens während der Jahre 1843 und 1844 mit allerhöchster Genehmigung auf Veranstaltung der Kaiserlichen Akademie der Wissenschaften zu St. Petersburg ausgeführt und in Verbindung mit vielen Gelehrten herausgegeben (von Dr. A. Th. v. Middendorf)*. Band II, Zoologie. Theil 1. Wirbellose Thiere: Annullaten. Echinodermen. Insecten. Krebse. Mollusken. Parasiten. Bearbeitet von F. Brandt, W. F. Erichson, Seb. Fischer, E. Grube, E. Ménétriés, A. Th. v. Middendorf. 516 pp., 32 plates. St. Petersburg.

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- 1823 *Entomographien*. *Naturwiss. Abhandl. Dorpat*. 1: 57-186, 2 pls.

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[Bishop Museum Special Publication 86.]

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- 1834 Diptera Wolgam fluvium inter et montes Uralenses observata. *Bull. Soc. imp. Nat. Moscou* 7: 420-432.

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[The I.C.Z.N. (1958) determined the publication for this work as 17 April on the assumption that it first appeared at the Leipzig Easter book fair with the 17th being the Monday after Easter. However, the Leipzig book fair was held two week after Easter (Sayre 1959: 4)!]

- 1777 *Genera insectorvm eorvmqve characteres natvrales secvndvm nvmervm, figvram, sitvm et proportionem omnivm partivm oris adiecta mantissa speciervm nvper detectarvm*. [16 +] 310 pp. M. F. Bartschii, Chilonii [=Kiel].

[Horn & Schlenkling (1928: 334) gave 1776 as the date without comment. Hagen (1862: 220) gave 1777 following Engelmann. The title page bears no date. The preface is dated 26 December 1776. Given that late date, we follow Hagen and date this work as appearing in 1777.]



- 1779 *Reise nach Norwegen mit Bemerkungen aus der Naturhistorie und Oekonomie*. lxiv + 388 pp. [+ 12] pp. Bohn, Hamburg.
- 1781 *Species insectorvm exhibentes eorvm differentias specificas, synonyma, avctorvm, loca natalia, metamorphosin adiectis observationibvs, descriptionibvs*. Vol. 2, 517 pp. C. E. Bohnii, Hambvrgi et Kilonii [=Hamburg and Kiel]. (March)  
[Shown at the Leipzig Easter book fair (29 April) (Cobres 1782: 820). Also listed in *Allgemeines Verzeichniss Neuer Bücher* 6: 181 (Evenhuis in litt.)]
- 1787 *Mantissa insectorvm sistens species nyper detectas adiectis synonymis, observationibvs, descriptionibvs, emendationibvs*. Vol. 2, 382 pp. C. G. Proft, Hafniae [=Copenhagen]. (27 December)  
[The titles given for volumes 1 and 2 differ. The above is the title given for volume 2. The title given in Coulson *et al.* (1965: 1222) is incomplete; that in Evenhuis *et al.* (1989: 863) is volume 1, not 2. The date is from *Minerva* 10: 440 (Evenhuis in litt.)]
- 1794 *Entomologia systematica emendata et aucta. Secundum classes, ordines, genera, species adiectis synonymis, locis, observationibus, descriptionibus*. Vol. 4, [6] + 472 + [5] pp. C. G. Proft, Hafniae [=Copenhagen].
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[The date is from Dawson (1958: 333, *The Banks letter* ...) (Evenhuis in litt.)]

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- 1810 *Specim. entomolog. novam Diptera disponendi methodum exhibens*. 26 pp., 1 pl. Berlingianis, Lundae [=Lund]. (9 June)
- 1817 *Beskrifning öfver de i Sverige funna fluge arter, som kunna föras till slägtet Musca. Första afdelningen. K. Svenska. Vetenskapsakad. Handl.* (3) 1816: 226-254.
- 1820- *Monographia Muscidum Sveciae*. Pp. 1-12 (13 June 1820), 13-24 (13 June 1820), 25-40 (14 June 1820); Pp. 41-48 (6 June 1821); pp. 49-56 (26 April 1823), 57-64 (31 May 1823); pp. 65-72 (9 December 1824); pp. 73-80 (23 April 1825), 81-94 (18 June 1825). Berlingianis, Lundae [=Lund]

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[Correct form of first name is "Zi-de" according to Dr. Fan, but it also appears as "C.T.", "Tse-Teh," "Tze-Teh," or "Zide".]

1965 Key to species of common synanthropic flies in China. xv + 330 pp., 40 pls. Peking. [In Chinese.] (September)

1978 A new fly of the genus *Musca* from Tibet, China (Diptera: Muscidae). *Acta ent. sin.* 21: 329-331. [In Chinese with English summary.] (August)

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**Forskål, P.**

1775 *Descriptiones animalium avium, amphibiorum, piscium, insectorum, vermium; quae in itinere orientali observavit Petrus Forskål. Post mortem auctoris edidit Carsten Niebuhr. Adjuncta est materia medica kahirina atque tabula maris rubri geographica.* 19 + 34 + 164 pp. Mölleri, Havniae [=Copenhagen]. (3 June)

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**Forster, J. R.**

1770 *Catalogue of British Insects.* 16 pp. Eyres, Warrington.

1771 *Novae species insectorum. Centuria I.* viii + 100 pp. Davies & White, London. (1 December)

1788 *Enchiridion historiae naturali inserviens, quo termini et delineationes ad avium, piscium, insectorum et plantarum adumbrationes intelligendas et concinnandas, secundum methodum systematis Linnaeani continentur.* [15 +] 224 pp. Hemmerde & Schwetschke, Halae [=Halle]. (27 March)

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[We have used the spelling "Fuesslin" as that is how the name appears on the title page and preface. Fuessly is used by Percheron (1837: 121) and Sherborn (1902: xxv), Gilbert (1977: 130) used Ftissley and Horn & Schenkling (1928: 390) used Ftessly but gave Füssly, Fuessly, Ftessli and Fuessin as alternative spellings. Hagen (1862: 257) used Ftessly, but wrote "The author is always called Fuessly, only in *Archiv* he wrote Ftessly and alternatively Fuessly!"]

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[This also includes, on page 8, the start of an unfinished bibliography of Schrank's works.]

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[As clearly indicated in the title and introduction, Schellenberg only provided the plates, while the text and names were provided by two anonymous amateurs. However, as these anonymous authors are unknown, we follow tradition and attribute authorship of the whole work to Schellenberg.]

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# Postscript

This project began with a real problem. I continually discovered situations where there were identical names which applied to different flies. These situations required that one name had to be changed, and in most cases, it was the name that workers were using that had to be changed. Naturally, my colleagues complained with the familiar refrain, "Why don't you make up your mind!" So, I wanted to examine sources of all names to gather the data necessary to resolve nomenclatural matters so names would no longer be changed for purely legalistic reasons (as opposed to changes resulting from an increase of our knowledge of species). Alternative courses of action were available: Rather than making the changes mandated by the rules, one could apply for an exception to the rules, or one could simply ignore the rules. However, both the alternatives are unethical, being contrary to the principle of priority and respect for history. The promise of Automatic Data Processing (ADP) made the task seem simple and guaranteed that the data could be shared by all. Thus, with the desire to resolve the problem of old names once and for all times, I started my odyssey through ancient history and modern ADP. Now that I am at the end of this odyssey, I offer a postscript.

Data standards (including editorial) are an often forgotten essential element. The lack of complete and comprehensive data standards haunted the project from the start and was the cause of much unproductive effort. ADP and desktop publishing are wonderful tools as enormous amounts of data can be quickly processed into eloquent publications, but they can just as easily turn the data into a mountain of garbage. What determines the difference is good standards and rigid adherence to them. While we followed the community standards, such as those of ICZN and BIOSIS, I discovered that many details are not covered by them. Hence, I evolved my own supplemental standards (Thompson *et alia* 1990). These are available to all. Beyond standards and ADP, xerox was essential. Much of the older literature is now almost inaccessible, locked away in rare book rooms. While we felt we got most things right the first time, we were always amazed by what we missed that first time. Xerox provided working copies that were readily available for re-examination. Sherborn's *Index Animalium* done without xerox and computers is in retrospect truly a Herculean accomplishment.

The *Musca* database was developed and is maintained on a Wang VS minicomputer using the Data Management System (DMS) supplied with the VS operating system. The text was done in Wang Word-Processing. VENTURA PUBLISHER was used to generate this book. COBOL programs were written to format the data for VENTURA. The word-processing documents



## Systematic Database of *Musca* Names

were converted to standard PC ASCII text files. Then these files were merged and printed with VENTURA. This database is now being converted from the Wang DMS environment to the PC environment.

From the *Musca* data file evolved the *Biosystematic Database of World Diptera*, which now contains virtually all the family-group (4,296) and genus-group (14,413) names that apply to flies and about 1/3 of the species-group names (30,658). From these data various publications are planned, such as *Systematic Database of Nearctic Diptera*, and eventually all the data will be available on CD-ROM disks. A number of systematists are already working with me so my journey is no longer solitary and I hope more dipterists will join us. So the *Musca* database must be viewed as only the first part of an international cooperative effort to master the names of flies that we know. From there we will be able to name more easily the ones we do not know. And that is a large part of the first task in understanding the biodiversity that man's world and welfare depend upon. So, I conclude this work by dedicating it to all my colleagues who have helped and continue to help me master the names for flies.

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Washington, D. C.